

Women's Health Initiative 2021 Annual Progress Report

Data as of: March 6, 2021

The data, if any, contained in this report/deliverable are preliminary and may contain unvalidated findings. These data are not intended for public use. Public use of these data could create erroneous conclusions which, if acted upon, could threaten public health or safety.



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Data as of: March 6, 2021

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Funded by National Institutes of Health Contract No. HHSN268201600018C

Table of Contents

| Tab | oles | | Page |
|-----|--------------|---|------|
| 1. | Overview | | 1-1 |
| | Table 1.1 | WHI Centers and Principal Investigators | 1-5 |
| | Table 1.2 | Consent Status by Study Component and Arm | |
| | Table 1.3 | Consent Status by Age at Enrollment and Race/Ethnicity | |
| | Table 1.4 | Counts of Participants with Active Participation by Current Age, Race/Ethnicity and Cohort | |
| | Table 1.5 | Composition of WHI Cohort Over Time | |
| | Table 1.6 | Response Rates to CCC Annual Mailings, Extension Study 2010-2025, Years 2019-2020, | |
| | | By Cohort and Regional Center | 1-11 |
| | Table 1.7 | Response Rates to Regional Center Follow-up and Cumulative Response, | |
| | | Extension Study 2010-2025, Years 2019-2020, by Cohort and Regional Center | |
| | Table 1.8 | Form 2 vs. Imputed Form 41 Race/ Ethnicity | 1-17 |
| 2. | Vital Status | | |
| | Table 2.1 | Participation and Vital Status: WHI Participants by Extension Study Participation and Cohort. | 2-1 |
| | Table 2.2 | Participation and Vital Status: WHI Extension Study 2010-2025 Participation by MRC vs. SRC Cohort | |
| | Table 2.3 | Proxy Follow-up Status: WHI Extension Study 2010-2025 Participants by Cohort, | |
| | | Current Age, and Race/Ethnicity | 2-3 |
| | Table 2.4 | Participation and Vital Status: CT and OS Participants | |
| | Table 2.5 | Participation and Vital Status: WHI Extension Study 2010-2025 Participation by | |
| | | CT vs. OS Cohort | 2-5 |
| | Table 2.6 | Cause of Death (Annualized Percentages): MRC and SRC Super Cohort Participants | 2-6 |
| | Table 2.7 | Cause of Death (Annualized Percentages): CT and OS Participants | 2-8 |
| | Table 2.8 | Cause of Death Excluding Discovered Deaths Among Non-Extension Study Participants | |
| | | (Annualized Percentages): CT and OS Participants | 2-9 |
| 3. | Adjudicated | Outcomes | |
| | Table 3.1 | Verified Outcomes (Annualized Percentages) by Age at Enrollment | |
| | 1 4010 3.1 | For MRC Super Cohort Participants. | 3-1 |
| | Table 3.2 | Verified Outcomes (Annualized Percentages) by Race/Ethnicity | 3 1 |
| | 14010 0.2 | For MRC Super Cohort Participants. | 3-2 |
| | Table 3.3 | Verified Outcomes (Annualized Percentages) by Age at Diagnosis | |
| | | For MRC Super Cohort Participants. | 3-4 |
| | Table 3.4 | Verified Outcomes (Annualized Percentages) by Age at Enrollment | |
| | | For SRC Super Cohort Participants | 3-5 |
| | Table 3.5 | Verified Outcomes (Annualized Percentages) by Race/Ethnicity | |
| | | For SRC Super Cohort Participants | 3-6 |
| | Table 3.6 | Verified Primary and Other Cancers (Annualized Percentages): | |
| | | MRC and SRC Super Cohort Participants | |
| | Table 3.7 | Verified Outcomes (Annualized Percentages) by Age at Diagnosis for CT and OS Participants | |
| | Table 3.8 | Verified Primary and Other Cancers (Annualized Percentages): CT and OS Participants | 3-11 |
| | Table 3.9 | Verified Primary and Other Cancers (Annualized Percentages) by <u>Race/Ethnicity</u> | |
| | | For CT and OS Participants | 3-13 |
| 4. | Self-Reporte | ed Outcomes | |
| | Table 4.1 | Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by | |
| | 14010 | Age at Enrollment for MRC Super Cohort Participants Who Did Not Report a Prevalent | |
| | | Condition at Baseline | 4-1 |
| | Table 4.2 | Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by | - |
| | | Race/Ethnicity for MRC Super Cohort Participants Who Did Not Report a Prevalent | |
| | | Condition at Baseline | 4-2 |
| | Table 4.3 | Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by | |
| | | Age at Enrollment for SRC Super Cohort Participants Who Did Not Report a Prevalent | |
| | | Condition at Baseline | 4-3 |

Table of Contents

| Tal | oles | | Page |
|-----|-------------------------|---|------|
| | Table 4.4 | Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by Race/Ethnicity for SRC Super Cohort Participants Who Did Not Report a Prevalent Condition at Baseline | |
| | Table 4.5 | Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by Age at Enrollment for CT Participants Who Did Not Report a Prevalent Condition at Baseline | |
| | Table 4.6 | Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by Race/Ethnicity for CT Participants Who Did Not Report a Prevalent Condition at Baseline | |
| | Table 4.7 | Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by Age at Enrollment for OS Participants Who Did Not Report a Prevalent Condition at Baseline | |
| | Table 4.8 | Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by Race/Ethnicity for OS Participants Who Did Not Report a Prevalent Condition at Baseline | |
| | Table 4.9 Table 4.10 | Self-Reported Fractures (Annualized Percentages): MRC and SRC Super Cohort Participants Self-Reported Fractures (Annualized Percentages): CT and OS Participants | 4-9 |
| 5. | | Adjudication Agreement | 1 10 |
| • | Table 5.1 | Agreement of the Central Adjudications with Self-Reports for Outcomes Reported in Extension Study 2010-2025 | 5_1 |
| | Table 5.2 | Agreement of the UNC Heart Failure (HF) Adjudications with Self-Reports among MRC Super Cohort Participants | |
| | Table 5.3 | Source of Outcomes Confirmed by Central Adjudication for Self-Reported Outcomes in Extension Study 2010-2025 | |
| 6. | Long Life S | Study | |
| | Table 6.1 | Consent Status and Participant Characteristics for Long Life Study Participants by Race/Ethnicity. | 6-1 |
| | Table 6.2 | Participation and Vital Status: Long Life Study (LLS) Participants | |
| | Table 6.3 | Verified Outcomes (Annualized Percentages) <u>After Long Life Study (LLS) Visit</u> by Age at Visit for <u>LLS Participants</u> | |
| | Table 6.4 | Verified Outcomes (Annualized Percentages) <u>After Long Life Study (LLS) Visit</u> by <u>Race/Ethnicity</u> for LLS Participants | |
| | Table 6.5 | Self-Reported Outcomes (Annualized Percentages) <u>After Long Life Study (LLS) Visit by</u> <u>Age at Visit and Race/Ethnicity</u> for <u>LLS Participants</u> Who Did Not Report a Prevalent | |
| | | Condition at Baseline | 6-6 |
| 7. | | g Extension Study 2010-2025 | |
| | Table 7.1 Figure 7.1 | Number of Falls per Participant During Extension Study 2010-2025 by <u>Visit Year</u> Percent of Participants with Falls During Extension Study 2010-2025 by <u>Visit Year</u> and | |
| | Figure 7.2 | Age at the Start of Extension Study 2010-2025. Age-Adjusted Percent of Participants with Falls During Extension Study 2010-2025 by Visit Year and Race/Ethnicity. | |
| 8. | Publication | | |
| | Table 8.1 | WHI Manuscript Stages | 8-1 |
| | Table 8.2 | Publications April 2020 – February 2021 | 8-2 |
| 9. | COVID-19 | Survey Data | |
| | Table 9.1 | WHI COVID-19 Survey Response Rates by Collection Mechanism | 9-1 |
| | Table 9.2 | Responses to First WHI COVID-19 Survey Overall and by Age at Survey Completion | |

1. Overview

1.0 Background

In the mid-1990s, WHI investigators at 40 Clinical Centers recruited 161,808 women into the program. 68,132 women were randomized into the clinical trial component (CT) and 93,676 were enrolled into the observational study (OS) (Figure 1). During 2004-2005, the original closeout period, 115,407 women consented to five additional years of follow-up, representing 76.9% of the 150,076 participants who were alive in active follow-up at that time. In 2010, participants were offered the opportunity to continue, and 87% of the 107,706 eligible women agreed

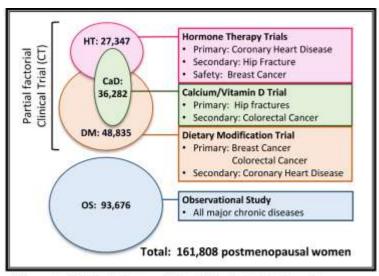


Figure 1. Original design of the WHI clinical trials and observational study, its components and outcomes.

(n=93,567). Active follow-up, and passive follow-up through administrative data sources, continues unless participants withdraw consent.

1.1 The 2010-2025 Extension Study

The follow-up protocol for 2015-2025 is similar to follow-up starting in 2010. Participants are contacted annually, by mail or email (forms via RedCAP), for health and selected exposure updates. For reports of designated health events, we obtain medical records documentation for a subset. Cardiovascular events and hip fractures are documented only in the subset of participants referred to as the Medical Records Cohort (MRC), comprising all former hormone trial (HT) participants and all non-Hispanic Black/African American and Hispanic/Latina participants regardless of their previous enrollment status (Figure 2). Active

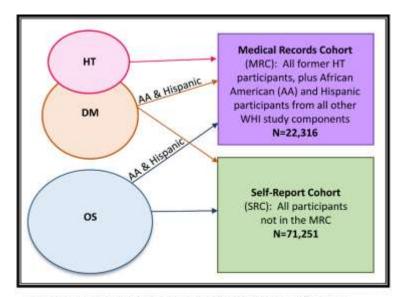


Figure 2. 2010–2020 Extension Study design reflecting differing levels of outcomes ascertainment: MRC and SRC.

outcome data collection for the remaining participants (the Self-Report Cohort or SRC) is primarily limited to self-report. However, NCI supports documentation and coding of incident primary cancers, and NINDS is supporting documentation of incident stroke events. In addition, several active ancillary studies augment the endpoints documentation, and passive follow-up is available through linkage to Medicare, including HMO covered (part C) participants starting in 2015 and the National Death Index. Both of these sources are queried annually and we continue to work with NAACCR to develop an efficient link with the national Virtual Pooled Registry for cancer cases.

The Clinical Coordinating Center (CCC) conducts annual mailings of follow-up questionnaires to all eligible participants. The Regional Centers (RC) and their collaborating centers contact non-responders, collect and submit medical records for all of the designated outcomes to the CCC, and participate in a range of scientific endeavors. The CCC fulfills the RC role for three former Field Centers (Seattle, LaJolla, and Gainesville).

As of March 6, 2021, 59,107 women remain in active follow-up (Table 1.4), 21% of whom are 90 or older. Table 1.5 shows how characteristics of currently active participants compare to those originally recruited. As the size of the cohort decreases, the infrastructure has been reconfigured to maximize efficiency. Participants are now being followed by four RCs and one satellite (Boston). Gainesville participants are now followed by the CCC and those from Tucson are followed by the Stanford RC.

1.2 Progress on Primary Study Objectives

Follow-up rates through March 2021 have remained strong, although there has been gradual decline. The response to mailings after two attempts was 81.5% for 2019. Participant age and health are both factors in this gradual decline and we assume that the COVID-19 pandemic and many of the restrictions imposed on our participants led to a lesser response in 2020. WHI administered detailed questionnaires and received a high response. This has contributed to the WHI program's ability to study how the pandemic has affected women in an age-range that has been overwhelmingly impacted by the pandemic.

WHI investigators have been interested in providing better information on race/ethnicity in support of studies of health disparities. Information from the baseline questionnaire (Form 2, administered in 1993-1998) has been used to supplement the more detailed Form 41 questionnaire (administered in 2003) to create an imputed race/ethnicity (Table 1.8). This new coding system preserves more detail of a woman's self-report as available.

For the designated WHI outcomes, annualized clinical event rates based on fully adjudicated outcomes through March 6, 2021 are presented by original study component, age and race (Sections 2-4). We present data for the MRC and SRC Supercohorts, including data for women from these subgroups from the beginning of WHI. Fully adjudicated events available through March 6, 2021 are provided for the MRC Supercohort. For the SRC Supercohort, fully adjudicated events are provided for the interval from enrollment to September 2010 or March 2021 as appropriate.

Nearly a third of the cohort enrolled in the extension studies is deceased (Table 2.1). Unfortunately at this point, the annualized death rate within the cohort is 5.5%. The women in the cohort are an average age of 84.8 years. It is critical to continue to do research within this cohort to examine the health and quality of life issues in this very understudied age group.

Section 5 provides a current summary of the agreement rates between self-reported events and centrally adjudicated events among MRC participants. In general, 50% to 70% of self-reported cardiovascular outcomes are confirmed as the reported diagnosis (Table 5.1). Often, however, a related diagnosis is found. For example, of the confirmed clinical myocardial infarctions, only 52% were based on a self-report of that condition, and the remainder were discovered when investigating a self-report of a different outcome (Table 5.3). Similarly, only 54% of confirmed heart failure cases were found based on a self-report of that condition (Table 5.2). In contrast, the vast majority of self-reported cancer types are confirmed (Table 5.3).

The WHI Long Life Study (LLS) enrolled 7,875 women in the MRC, and collected a blood sample and physical frailty measures. The LLS visit will be repeated in surviving members in 2022-2023. Of the participants who were in the LLS, 65% (n=5122) continue to be actively followed (Table 6.2). Verified

and self-reported outcomes occurring after the LLS visit are presented by age at LLS study visit (Table 6.3) and race (Table 6.4). So far, 1170 LLS participants have had verified cardiovascular outcomes, 681 have had a verified cancer, and 2,252 have died after the LLS visit. The most frequent self-reported outcomes after the visit are: macular degeneration (N=1168), dementia (N=1116), osteoarthritis (N=903) and COPD (N=793) (Table 6.5).

In 2021, WHI began adjudicating strokes in the SRC cohort. NINDS funded efforts to expand stroke adjudication to the end of being able to have a rich resource for examining the role between cognition and stroke. We have started investigations of both retrospective (back to strokes reported in 2010) and current reports. These are scientifically important events to document, though we expect this will change our approach to event rates in the overall cohort. As these adjudications have only been underway recently, these strokes are not included in this year's report, however they will be next year.

1.3 Engaging Investigators to Continue to Enhance WHI's Contributions to Science

The WHI program leadership recognizes the importance of drawing in new investigators to use the rich WHI resources, and also providing leadership and growth opportunities. The WHI Scientific Interest Groups (SIGs) are an active opportunity to provide an entryway into understanding WHI resources and proposing ancillary studies and manuscripts. These efforts have yielded several new initiatives.

Section 8 addresses manuscripts published in the last year. A full listing and status of all proposed ancillary studies and manuscripts is available on the WHI website (www.whi.org). In total, 3,863 manuscript proposals have been approved and 2,089 manuscripts published or in press (Table 8.1), including 110 publications since last year's report. Investigators using WHI data continue to present high-quality science of broad interest, with publications in the last year in many high-impact journals such as JAMA, American Journal of Epidemiology, Cancer and Circulation. In addition to manuscripts addressing cardiovascular disease and cancer among WHI participants, a substantial number examine diabetes, genetics, and aging. WHI also participates in a number of consortia, reflecting the collaborative nature of the WHI investigators and the value of WHI data, particularly for rarer exposures and outcomes.

The cohort serves as the backbone for ancillary studies. The COcoa Supplement and Multivitamin Outcomes Study (COSMOS) trial (PIs: JoAnn Manson and Howard Sesso), the WHI Strong and Healthy (WHISH) trial (PIs: Marcia Stefanick, Charles Kooperberg, Andrea LaCroix), and many related ancillary trials exploring cognition, eye health, cardiovascular conditions, and more related to the benefits of the interventions are ongoing. The COSMOS trial (PIs: JoAnn Manson, Howard Sesso, Garnet Anderson) will be presenting results the Fall of 2021 at both the AHA conference and in multiple peer-reviewed manuscripts.

We anticipate supporting the Long Life Study 2 in the coming year. Several ancillary studies, including the WHISH trial and the LILAC cancer survivorship cohort will leverage the in-person visits to advance aims of those projects. Additional projects, proposed primarily by young investigators, plan to use the in-person visit to collect data, biospecimens, or use the data collection point as an anchor for independent data collection to tie to the functional measures collected by the LLS.

Genetic data are available in dbGaP for over 30,000 WHI participants using a number of approaches, including our participation in the TOPMed program that can be linked to CVD biomarker data, providing an opportunity for outside investigators to use these resources independent of the WHI program. WHI data, including cancer survivorship data, has been submitted to the NHLBI's BIOLINCC data repository.

The CCC, with assistance from the RCs, developed and implemented a survey of all WHI participants in the summer of 2020, designed to assess the impact of the COVID-19 pandemic and the associated prevention measures on their health and well-being. In total, 64,185 participants were contacted and 50,273 (78.3%) responded (Table 9.1). At the time of the survey, 18.9% reported being tested for COVID-19 and 311 reported having a positive test. Analyses of these data are being prioritized for publication, with a Journal of Gerontology supplemental issue to include the manuscripts. A subsequent survey is in progress, thanks to a collaborative effort of the Regional Centers and the CCC to send surveys to all participants who completed the first survey related to their experience during the COVID-19 pandemic.

The May 2020 celebratory WHI Investigator Meeting was not held in person. Instead a series of webinars were held over an 8 week period, allowing investigators to be updated and to engage on multiple study topics according to their interest. We look forward to meeting again in person in 2022.

Table 1.1 WHI Centers and Principal Investigators

Clinical Coordinating Center

| Principal Investigator | Institution | Location |
|------------------------|--|-------------|
| Garnet Anderson, PhD | Fred Hutchinson Cancer Research Center | Seattle, WA |

Field Centers

| Principal Investigator | Institution | Location |
|---------------------------|------------------------|------------------------------|
| Rebecca Jackson, MD | Ohio State University | Columbus, OH |
| Mara Vitolins, DrPH | Wake Forest University | Winston-Salem/Greensboro, NC |
| Marcia Stefanick, PhD | Stanford University | Palo Alto, CA |
| Jean Wactawski-Wende, PhD | University at Buffalo | Buffalo, NY |

Associated Centers

| Principal Investigator | Institution | Location |
|---------------------------|------------------------------|--|
| Marian Limacher, MD | University of Florida | Gainesville, FL (FC closed Apr 2019) |
| JoAnn Manson, MD DrPH | Brigham and Women's Hospital | Boston, MA |
| Cynthia Thomson, PhD RD | University of Arizona | Tucson, AZ (Satellite closed Oct 2020) |
| Jennifer Robinson, MD MPH | University of Iowa | Iowa City/ Bettendorf, IA (FC closed |
| | | Feb 2020) |

Current WHI Committee Chairs

| Investigator | Institution Committee | |
|-------------------------|--|--------------------------------------|
| Marian Neuhouser, PhD | Fred Hutchinson Cancer Research Center | Ancillary Studies (ASC) |
| Marian Limacher, MD | University of Florida | Outcomes Adjudications (OAC) |
| Charles Kooperberg, PhD | Fred Hutchinson Cancer Research Center | Performance Monitoring (PMC) |
| Cynthia Thomson, PhD RD | University of Arizona | Publications and Presentations (P&P) |
| Linda Van Horn, PhD RD | Northwestern University | Publications and Presentations (P&P) |
| Rebecca Jackson, MD | Ohio State University | Scientific Resources Working Group |
| Sally Shumaker, PhD | Wake Forest University | Steering Committee (SC) |

Table 1.2 Consent Status by <u>Study Component</u> and <u>Arm</u>

| | Enrolled in | Eligible for Extension | Consei | nted |
|-----------------------|-------------|--|--------|------|
| | WHI | rolled in WHI Extension 2005-2010¹ Conse N 27347 25194 20433 16608 15408 12788 8506 7878 6545 8102 7530 6243 10739 9786 7645 5310 4851 3778 5429 4935 3867 48835 45560 37858 19541 18207 14769 29294 27353 23089 36282 34447 29862 18176 17280 15025 18106 17167 14837 68132 63332 52176 93676 86744 63231 | % | |
| WHI Enrollment | | | | |
| Hormone Therapy | 27347 | 25194 | 20433 | 81.1 |
| With Uterus | 16608 | 15408 | 12788 | 83.0 |
| E+P | 8506 | 7878 | 6545 | 83.1 |
| Placebo | 8102 | 7530 | 6243 | 82.9 |
| Without Uterus | 10739 | 9786 | 7645 | 78.1 |
| E-alone | 5310 | 4851 | 3778 | 77.9 |
| Placebo | 5429 | 4935 | 3867 | 78.4 |
| Dietary Modification | 48835 | 45560 | 37858 | 83.1 |
| Intervention | 19541 | 18207 | 14769 | 81.1 |
| Comparison | 29294 | 27353 | 23089 | 84.4 |
| Calcium and Vitamin D | 36282 | 34447 | 29862 | 86.7 |
| Active | 18176 | 17280 | 15025 | 87.0 |
| Placebo | 18106 | 17167 | 14837 | 86.4 |
| Clinical Trial Total | 68132 | 63332 | 52176 | 82.4 |
| Observational Study | 93676 | 86744 | 63231 | 72.9 |
| Total | 161808 | 150076 | 115407 | 76.9 |

| | Enrolled in Extension | Eligible for Extension | Conser | atod. |
|-----------------------|--------------------------|---------------------------|----------|-------|
| | 2005-2010 | 2010-2025 ¹ | N Consei | % |
| WHI Enrollment | | | | |
| Hormone Therapy | 20433 | 18794 | 15584 | 82.9 |
| With Uterus | 12788 | 11789 | 9891 | 83.9 |
| E+P | 6545 | 6048 | 5047 | 83.4 |
| Placebo | 6243 | 5741 | 4844 | 84.4 |
| Without Uterus | 7645 | 7005 | 5693 | 81.3 |
| E-alone | 3778 | 3479 | 2834 | 81.5 |
| Placebo | 3867 | 3526 | 2859 | 81.1 |
| Dietary Modification | 37858 | 35594 | 30690 | 86.2 |
| Intervention | 14769 | 13922 | 12014 | 86.3 |
| Comparison | 23089 | 21672 | 18676 | 86.2 |
| Calcium and Vitamin D | 29862 | 27975 | 24231 | 86.6 |
| Active | 15025 | 14083 | 12242 | 86.9 |
| Placebo | 14837 | 13892 | 11989 | 86.3 |
| Clinical Trial Total | 52176 | 48697 | 41499 | 85.2 |
| Observational Study | 63231 | 59009 | 52068 | 88.2 |
| Total | 115407 | 107706 | 93567 | 86.9 |

¹ Eligibility defined as alive at the beginning of consent and willing to be contacted.

Table 1.3
Consent Status by <u>Age at Enrollment</u> and <u>Race/Ethnicity¹</u>

Data as of: March 6, 2021

| | | Clinical Tr | rial | | Observational Study | | | |
|-----------------------------|----------|-------------------------------|-------|------|---------------------|-------------------------------|-------|-------|
| | | Eligible for | | | | Eligible for | | |
| | Enrolled | Extension | Conse | nted | Enrolled | Extension | Conse | ented |
| | in WHI | 2005-2010 ² | N | % | in WHI | 2005-2010 ² | N | % |
| WHI Enrollment | | | | | | | | |
| Total | 68132 | 63332 | 52176 | 82.4 | 93676 | 86744 | 63231 | 72.9 |
| Age | | | | | | | | |
| 50-54 | 9188 | 8754 | 7237 | 82.7 | 12381 | 11969 | 8996 | 76.9 |
| 55-59 | 14661 | 13940 | 11724 | 84.1 | 17329 | 16565 | 12732 | 74.2 |
| 60-69 | 31389 | 29290 | 24528 | 83.7 | 41200 | 38502 | 28582 | 65.6 |
| 70-79 | 12894 | 11348 | 8687 | 76.6 | 22766 | 19708 | 12921 | 72.9 |
| Race/Ethnicity ¹ | | | | | | | | |
| American Indian/ | | | | | | | | |
| Alaska Native | 292 | 260 | 185 | 71.2 | 421 | 372 | 217 | 58.3 |
| Asian/Pacific Islander | 1519 | 1414 | 1105 | 78.1 | 2671 | 2444 | 1291 | 52.8 |
| Non-Hispanic Black/ | | | | | | | | |
| African American | 6983 | 6423 | 4769 | 74.2 | 7635 | 6868 | 3585 | 52.2 |
| Hispanic/Latina | 2875 | 2686 | 1791 | 66.7 | 3609 | 3333 | 1598 | 47.9 |
| Non-Hispanic White | 55525 | 51682 | 43680 | 84.5 | 78016 | 72504 | 55767 | 76.9 |
| Unknown | 938 | 867 | 646 | 74.5 | 1324 | 1223 | 773 | 63.2 |

| | | Clinical Tri | al | | Observational Study | | | |
|-----------------------------|---------------------------------|---|------------|------------|---------------------------------------|---|------------|------------|
| | Enrolled in Extension 2005-2010 | Eligible for Extension 2010-2025 ² | Conse N | ented % | Enrolled in Extension 2005-2010 | Eligible for Extension 2010-2025 ² | Conse N | ented % |
| WHI Enrollment | | | | | | | | |
| Total | 52176 | 48697 | 41499 | 85.2 | 63231 | 59009 | 52068 | 88.2 |
| Age | | | | | | | | |
| 50-54 | 7237 | 7068 | 6249 | 88.4 | 8996 | 8802 | 8225 | 93.4 |
| 55-59 | 11724 | 11329 | 10055 | 88.8 | 12732 | 12400 | 11481 | 92.6 |
| 60-69 | 24528 | 22940 | 19642 | 85.6 | 28582 | 26820 | 23716 | 88.4 |
| 70-79 | 8687 | 7360 | 5553 | 75.4 | 12921 | 10987 | 8646 | 78.7 |
| Race/Ethnicity ¹ | | | | | | | | |
| American Indian/ | | | | | | | | |
| Alaska Native | 185 | 174 | 147 | 84.5 | 217 | 204 | 171 | 83.8 |
| Asian/Pacific Islander | 1105 | 1050 | 845 | 80.5 | 1291 | 1224 | 1035 | 84.6 |
| Non-Hispanic Black/ | | | | | | | | |
| African American | 4769 | 4459 | 3420 | 76.7 | 3585 | 3358 | 2716 | 80.9 |
| Hispanic/Latina | 1791 | 1701 | 1226 | 72.1 | 1598 | 1527 | 1246 | 81.6 |
| Non-Hispanic White | 43680 | 40704 | 35363 | 86.9 | 55767 | 51969 | 46296 | 89.1 |
| Unknown | 646 | 609 | 498 | 81.8 | 773 | 727 | 604 | 83.1 |

¹ Race/ethnicity as identified on Form 2 at baseline.

² Eligibility defined as alive at the beginning of consent and willing to be contacted.

Table 1.4
Counts of Participants with Active¹ Participation by Current Age², Race/Ethnicity and Cohort
Data as of: March 6, 2021

| | | | Observ | vational | | | | | | |
|--|---------|----------|--------|----------|--------|---------------------|-------|--------------------|-------|-------|
| | Clinica | ıl Trial | St | udy | MRC (| Cohort ³ | SRC C | ohort ⁴ | Tot | tal |
| | (N=2 | 5,395) | (N=3 | 2,712) | (N=13) | 3,649) | (N=45 | 5,458) | (N=59 | ,107) |
| | N | % | N | % | N | % | N | % | N | % |
| Age on 3/06/2021 | | | | | | | | | | |
| <75 | 124 | 0.5 | 416 | 1.3 | 183 | 1.3 | 357 | 0.8 | 540 | 0.9 |
| 75-79 | 5148 | 19.5 | 6987 | 21.4 | 2990 | 21.9 | 9145 | 20.1 | 12135 | 20.5 |
| 80-84 | 8620 | 32.7 | 10007 | 30.6 | 4273 | 31.3 | 14354 | 31.6 | 18627 | 31.5 |
| 85-89 | 7178 | 27.2 | 8250 | 25.2 | 3458 | 25.3 | 11970 | 26.3 | 15428 | 26.1 |
| 90-94 | 4093 | 15.5 | 5279 | 16.1 | 2069 | 15.2 | 7303 | 16.1 | 9372 | 15.9 |
| 95+ | 1232 | 4.7 | 1773 | 5.4 | 676 | 5.0 | 2329 | 5.1 | 3005 | 5.1 |
| Ethnicity ⁵ | | | | | | | | | | |
| Not Hispanic/Latina | 25322 | 95.9 | 31602 | 96.6 | 11900 | 87.2 | 45024 | 99.0 | 56924 | 96.3 |
| Hispanic/Latina | 1025 | 3.9 | 1032 | 3.2 | 1739 | 12.7 | 318 | 0.7 | 2057 | 3.5 |
| Other/Not Reported | 48 | 0.2 | 78 | 0.2 | 10 | 0.1 | 116 | 0.3 | 126 | 0.2 |
| Race ⁵ | | | | | | | | | | |
| American Indian/Alaska Native | 59 | 0.2 | 72 | 0.2 | 42 | 0.3 | 89 | 0.2 | 131 | 0.2 |
| Asian | 589 | 2.2 | 700 | 2.1 | 151 | 1.1 | 1138 | 2.5 | 1289 | 2.2 |
| Native Hawaiian/Other Pacific Islander | 30 | 0.1 | 17 | 0.1 | 19 | 0.1 | 28 | 0.1 | 47 | 0.1 |
| Black/African American | 2117 | 8.0 | 1701 | 5.2 | 3767 | 27.6 | 51 | 0.1 | 3818 | 6.5 |
| White | 22953 | 87.0 | 29552 | 90.3 | 8955 | 65.6 | 43550 | 95.8 | 52505 | 88.8 |
| More than one Race | 398 | 1.5 | 335 | 1.0 | 257 | 1.9 | 476 | 1.0 | 733 | 1.2 |
| Other/Not Reported | 249 | 0.9 | 335 | 1.0 | 458 | 3.4 | 126 | 0.3 | 584 | 1.0 |

¹ Active participation is defined as current (Form 33 within last 15 months) or recent (Form 33 between 15 and 24 months ago) follow-up.

² Age on March 06, 2021.

³ The MRC Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS who consented to WHI Extension Study 2010-2025.

⁴ The SRC Cohort includes all Non-Hispanic White, American Indian/Alaskan Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study who consented to WHI Extension Study 2010-2025.

⁵ Ethnicity and race and are presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines.

Table 1.4 (continued) Current Age¹ Distribution by Race/Ethnicity for Active² WHI Extension Study 2010-2025 Participants

| | Tot (N = 59 | | American Indian/ Alaska Native (N = 115) | | Asian or Native Hawaiian/ Other Pacific Islander ³ (N = 1,308) | | Hispanic/Latina (N = 2,057) | | Non-Hispanic Black/African American (N = 3,777) | | Non-Hispanic White (N = 51,041) | | Race (N = 649) | | Rep | er/Not orted : 160) |
|----------------------|--------------------|----------|---|------|---|------|--------------------------------|------|--|------|---------------------------------------|------|-----------------------|------|-----|---------------------------|
| | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Age on March 6, 2021 | | | | | | | | | | | | | | | | |
| <75 | 540 | 0.9 | 2 | 1.7 | 26 | 2.0 | 66 | 3.2 | 94 | 2.5 | 336 | 0.7 | 12 | 1.8 | 4 | 2.5 |
| 75-79 | 12135 | 20.5 | 35 | 30.4 | 333 | 25.5 | 595 | 28.9 | 986 | 26.1 | 9984 | 19.6 | 165 | 25.4 | 37 | 23.1 |
| 80-84 | 18627 | 31.5 | 39 | 33.9 | 381 | 29.1 | 651 | 31.6 | 1227 | 32.5 | 16083 | 31.5 | 198 | 30.5 | 48 | 30.0 |
| 85-89 | 15428 | 26.1 | 23 | 20.0 | 313 | 23.9 | 441 | 21.4 | 903 | 23.9 | 13532 | 26.5 | 172 | 26.5 | 44 | 27.5 |
| 90-94 | 9372 | 15.9 | 13 | 11.3 | 198 | 15.1 | 240 | 11.7 | 437 | 11.6 | 8378 | 16.4 | 84 | 12.9 | 22 | 13.8 |
| 95+ | 3005 | 5.1 | 3 | 2.6 | 57 | 4.4 | 64 | 3.1 | 130 | 3.4 | 2728 | 5.3 | 18 | 2.8 | 5 | 3.1 |

¹ Age on March 6, 2021. ² Active participation is defined as current (Form 33 within last 15 months) or recent (Form 33 between 15 and 24 months ago) follow-up.

³ Native Hawaiian/Other Pacific Islander participants (n=47) are combined with Asian participants for reporting purposes due to small numbers.

Table 1.5 Composition of WHI Cohort Over Time

Data as of: March 6, 2021

| | Enrolled in WHI (N=161,808) | | Particip End of Ex (9/30) | ive ¹ pation at extension 1 /2010) 14,888) | Active ¹ Participation as of 3/06/2021 (N=59,107) | | |
|----------------------------------|--------------------------------|------|---------------------------------|---|--|------|--|
| | N | % | N | % | N | % | |
| Age^2 | | | | | | | |
| 50-54 | 21569 | 13.3 | | | | | |
| 55-59 | 31990 | 19.8 | | | | | |
| 60-64 | 37210 | 23.0 | 1137 | 1.1 | | | |
| 65-69 | 35379 | 21.9 | 16490 | 15.7 | | | |
| 70-74 | 24906 | 15.4 | 25587 | 24.4 | 1666 | 2.8 | |
| 75-79 | 10754 | 6.6 | 25353 | 24.2 | 14712 | 24.9 | |
| 80-84 | | | 21808 | 20.8 | 18681 | 31.6 | |
| 85-89 | | | 11636 | 11.1 | 14124 | 23.9 | |
| 90-94 | | | 2839 | 2.7 | 7895 | 13.4 | |
| 95+ | | | 38 | < 0.1 | 2029 | 3.4 | |
| Ethnicity | | | | | | | |
| Not Hispanic/Latina | 153117 | 94.6 | 100996 | 96.3 | 56924 | 96.3 | |
| Hispanic/Latina | 7312 | 4.5 | 3653 | 3.5 | 2057 | 3.5 | |
| Other/Not Reported | 1379 | 0.9 | 239 | 0.2 | 126 | 0.2 | |
| Race | | | | | | | |
| American Indian/Alaska Native | 540 | 0.3 | 242 | 0.2 | 131 | 0.2 | |
| Asian | 4025 | 2.5 | 2108 | 2.0 | 1289 | 2.2 | |
| Native Hawaiian/Pacific Islander | 137 | 0.1 | 82 | 0.1 | 47 | 0.1 | |
| Black/African American | 14327 | 8.9 | 7285 | 6.9 | 3818 | 6.5 | |
| White | 137628 | 85.1 | 92810 | 88.5 | 52505 | 88.8 | |
| More than one Race | 1880 | 1.2 | 1305 | 1.2 | 733 | 1.2 | |
| Other/Not Reported | 3271 | 2.0 | 1056 | 1.0 | 584 | 1.0 | |
| Education ³ | | | | | | | |
| 0-8 years | 2665 | 1.7 | 869 | 0.8 | 320 | 0.5 | |
| Some high school | 5979 | 3.7 | 2818 | 2.7 | 1074 | 1.8 | |
| High school diploma/GED | 27624 | 17.2 | 16760 | 16.1 | 8273 | 14.1 | |
| School after high school | 60909 | 37.9 | 38435 | 36.9 | 20769 | 35.4 | |
| College degree or higher | 63415 | 39.5 | 45297 | 43.5 | 28276 | 48.2 | |
| Income ³ | | | | | | | |
| < \$10,000 | 6937 | 4.6 | 2870 | 2.9 | 979 | 1.7 | |
| \$10,000 - \$19,999 | 18499 | 12.3 | 9543 | 9.6 | 3712 | 6.6 | |
| \$20,000 - \$34,999 | 36665 | 24.3 | 22385 | 22.6 | 10765 | 19.2 | |
| \$35,000 - \$49,999 | 30912 | 20.5 | 21008 | 21.2 | 11782 | 21.0 | |
| \$50,000 - \$74,999 | 29948 | 19.8 | 21611 | 21.8 | 13592 | 24.2 | |
| \$75,000 + | 27973 | 18.5 | 21564 | 21.8 | 15349 | 27.3 | |
| Study Component | | | | | | | |
| Clinical Trial | 68132 | 42.1 | 47325 | 45.1 | 26395 | 44.7 | |
| Observational Study | 93676 | 57.9 | 57563 | 54.9 | 32712 | 55.3 | |

 1 Active participation is defined as current (Form 33 within the last 15 months) or recent (Form 33 between 15 and 24 months ago) follow-up. 2 Age at WHI Enrollment, End of Extension 1 (9/30/2010), and on 03/06/2021.

³ Education and income reported at baseline.

Table 1.6 Response Rates to CCC Annual Mailings, Extension Study 2010-2025 <u>Year 2019</u> by Cohort and Regional Center

| | | 1st Mailin | g Period | | | 2nd Mailing Period | | | | | |
|------------------------------|-------------------|------------|----------|------|----------------------|--------------------|--------|------|-------|------------|--|
| | | Sent | | onse | Past 2 nd | | | Res | ponse | Cumulative | |
| Cohort | Form ¹ | Mail 1 | N | % | mailing period | Sent N | Iail 2 | N | % | Response | |
| Total | 33 | 63661 | 47130 | 74.0 | 63661 | 14119 | 22.2 | 4783 | 33.9 | 81.5 | |
| | 151 | 62536 | 46100 | 73.7 | 62536 | 12178 | 19.5 | 4241 | 34.8 | 80.5 | |
| | 151B | 542 | 195 | 36.0 | 542 | 28 | 5.2 | 9 | 32.1 | 37.6 | |
| | 159 | 5148 | 3632 | 70.6 | 5148 | 1288 | 25.0 | 446 | 34.6 | 79.2 | |
| Medical Record | 33 | 14501 | 9814 | 67.7 | 14501 | 3942 | 27.2 | 1182 | 30.0 | 75.8 | |
| Cohort ² | 151 | 14230 | 9672 | 68.0 | 14230 | 3349 | 23.5 | 994 | 29.7 | 75.0 | |
| | 151B | 177 | 55 | 31.1 | 177 | 11 | 6.2 | 3 | 27.3 | 32.8 | |
| | 159 | 1189 | 793 | 66.7 | 1189 | 335 | 28.2 | 96 | 28.7 | 74.8 | |
| Self Report | 33 | 49160 | 37316 | 75.9 | 49160 | 10177 | 20.7 | 3601 | 35.4 | 83.2 | |
| Cohort ³ | 151 | 48306 | 36428 | 75.4 | 48306 | 8829 | 18.3 | 3247 | 36.8 | 82.1 | |
| | 151B | 365 | 140 | 38.4 | 365 | 17 | 4.7 | 6 | 35.3 | 40.0 | |
| | 159 | 3959 | 2839 | 71.7 | 3959 | 953 | 24.1 | 350 | 36.7 | 80.6 | |
| Regional Center ⁴ | | | | | | | | | | | |
| Boston | 33 | 6938 | 5072 | 73.1 | 6938 | 1578 | 22.7 | 531 | 33.7 | 80.8 | |
| | 151 | 6863 | 5004 | 72.9 | 6863 | 1347 | 19.6 | 467 | 34.7 | 79.7 | |
| | 151B | 51 | 14 | 27.5 | 51 | 0 | 0.0 | 0 | 0.0 | 27.5 | |
| | 159 | 572 | 391 | 68.4 | 572 | 145 | 25.3 | 59 | 40.7 | 78.7 | |
| Buffalo | 33 | 10179 | 7445 | 73.1 | 10179 | 2368 | 23.3 | 808 | 34.1 | 81.1 | |
| | 151 | 10087 | 7374 | 73.1 | 10087 | 2045 | 20.3 | 704 | 34.4 | 80.1 | |
| | 151B | 55 | 15 | 27.3 | 55 | 1 | 1.8 | 1 | 100.0 | 29.1 | |
| | 159 | 808 | 581 | 71.9 | 808 | 186 | 23.0 | 64 | 34.4 | 79.8 | |
| Columbus | 33 | 10329 | 7652 | 74.1 | 10329 | 2313 | 22.4 | 773 | 33.4 | 81.6 | |
| | 151 | 10175 | 7482 | 73.5 | 10175 | 2043 | 20.1 | 716 | 35.0 | 80.6 | |
| | 151B | 49 | 19 | 38.8 | 49 | 0 | 0.0 | 0 | 0.0 | 38.8 | |
| | 159 | 848 | 603 | 71.1 | 848 | 206 | 24.3 | 83 | 40.3 | 80.9 | |
| Gainesville ⁵ | 33 | 2311 | 1613 | 69.8 | 2311 | 625 | 27.0 | 182 | 29.1 | 77.7 | |
| | 151 | 2311 | 1608 | 69.6 | 2311 | 632 | 27.3 | 178 | 28.2 | 77.3 | |
| | 159 | 546 | 366 | 67.0 | 546 | 158 | 28.9 | 43 | 27.2 | 74.9 | |
| Iowa | 33 | 6042 | 4692 | 77.7 | 6042 | 1196 | 19.8 | 462 | 38.6 | 85.3 | |
| | 151 | 5933 | 4586 | 77.3 | 5933 | 1078 | 18.2 | 418 | 38.8 | 84.3 | |
| | 151B | 51 | 16 | 31.4 | 51 | 0 | 0.0 | 0 | 0.0 | 31.4 | |
| | 159 | 507 | 370 | 73.0 | 507 | 121 | 23.9 | 45 | 37.2 | 81.9 | |
| Seattle | 33 | 2932 | 2254 | 76.9 | 2932 | 564 | 19.2 | 206 | 36.5 | 83.9 | |
| | 151 | 2845 | 2176 | 76.5 | 2845 | 496 | 17.4 | 182 | 36.7 | 82.9 | |
| | 151B | 36 | 17 | 47.2 | 36 | 2 | 5.6 | 1 | 50.0 | 50.0 | |
| | 159 | 262 | 192 | 73.3 | 262 | 57 | 21.8 | 20 | 35.1 | 80.9 | |
| Stanford | 33 | 10833 | 8415 | 77.7 | 10833 | 2036 | 18.8 | 773 | 38.0 | 84.8 | |
| | 151 | 10573 | 8158 | 77.2 | 10573 | 1652 | 15.6 | 672 | 40.7 | 83.5 | |
| | 151B | 106 | 52 | 49.1 | 106 | 21 | 19.8 | 6 | 28.6 | 54.7 | |
| | 159 | 733 | 538 | 73.4 | 733 | 158 | 21.6 | 61 | 38.6 | 81.7 | |

¹ Form 33 = Medical History Update; Form 151 = Activities of Daily Life; Form 151B = Activities of Daily Life; Form 159 = Supplemental Questionnaire 2019.

² The MRC Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS who consented to WHI Extension Study 2010-2025.

³ The SRC Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown Race/Ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study who consented to WHI Extension Study 2010-2025.

⁴ Regional Center is determined based on the participant's responsible clinic at the start of the mailing window (2 months prior to the participant's mailing anniversary).

⁵ The Gainesville Regional Center closed in April 2019.

Table 1.6 (continued) Response Rates to CCC Annual Mailings, Extension Study 2010-2025 <u>Year 2019</u> by Cohort and Regional Center

| | | 1st Mailing | g Period | | 2nd Mailing Period | | | | | |
|------------------------------|-------------------|-------------|----------|----------|----------------------|--------|----------|-----|----------|------------|
| | | Sent | Res | ponse | Past 2 nd | | Response | | onse | Cumulative |
| Regional Center ¹ | Form ² | Mail 1 | N | % | mailing period | Sent N | Aail 2 | N | % | Response |
| Tucson | 33 | 4123 | 2961 | 71.8 | 4123 | 1021 | 24.8 | 307 | 30.1 | 79.3 |
| | 151 | 4030 | 2893 | 71.8 | 4030 | 844 | 20.9 | 264 | 31.3 | 78.3 |
| | 151B | 59 | 19 | 32.2 | 59 | 4 | 6.8 | 1 | 25.0 | 33.9 |
| | 159 | 352 | 238 | 67.6 | 352 | 110 | 31.3 | 36 | 32.7 | 77.8 |
| Wake Forest | 33 | 9974 | 7026 | 70.4 | 9974 | 2418 | 24.2 | 741 | 30.6 | 77.9 |
| | 151 | 9719 | 6819 | 70.2 | 9719 | 2041 | 21.0 | 640 | 31.4 | 76.7 |
| | 151B | 135 | 43 | 31.9 | 135 | 0 | 0.0 | 0 | 0.0 | 31.9 |
| | 159 | 520 | 353 | 67.9 | 520 | 147 | 28.3 | 35 | 23.8 | 74.6 |

¹ Regional Center is determined based on the participant's responsible clinic at the start of the mailing window (2 months prior to the participant's mailing anniversary).

² Form 33 = Medical History Update; Form 151 = Activities of Daily Life; Form 151B = Activities of Daily Life; Form 159 = Supplemental Questionnaire 2019.

Table 1.6 (continued) Response Rates to CCC Annual Mailings, Extension Study 2010-2025 <u>Year 2020</u> by Cohort and Regional Center

| | | 1st Mailing | g Period | | 2nd Mailing Period | | | | | |
|------------------------------|-------------------|-------------|----------|------|----------------------|--------|--------|------|------|------------|
| | | Sent | Resp | onse | Past 2 nd | | | | onse | Cumulative |
| Cohort | Form ¹ | Mail 1 | N | % | mailing period | Sent I | Mail 2 | N | % | Response |
| Total | 33 | 60406 | 40471 | 67.0 | 57378 | 8514 | 14.1 | 2094 | 24.6 | 70.5 |
| | 151 | 2250 | 1451 | 64.5 | 2100 | 30 | 1.3 | 0 | 0.0 | 64.5 |
| | 151B | 55548 | 36169 | 65.1 | 52732 | 8613 | 15.5 | 2584 | 30.0 | 69.8 |
| Medical Record | 33 | 13861 | 8590 | 62.0 | 13024 | 2608 | 18.8 | 537 | 20.6 | 65.8 |
| Cohort ² | 151 | 561 | 324 | 57.8 | 517 | 7 | 1.2 | 0 | 0.0 | 57.8 |
| | 151B | 12861 | 7786 | 60.5 | 12083 | 2490 | 19.4 | 584 | 23.5 | 65.1 |
| Self-Report | 33 | 46545 | 31881 | 68.5 | 44354 | 5906 | 12.7 | 1557 | 26.4 | 71.8 |
| Cohort ³ | 151 | 1689 | 1127 | 66.7 | 1583 | 23 | 1.4 | 0 | 0.0 | 66.7 |
| | 151B | 42687 | 28383 | 66.5 | 40649 | 6123 | 14.3 | 2000 | 32.7 | 71.2 |
| Regional Center ⁴ | | | | | | | | | | |
| Boston | 33 | 6346 | 4285 | 67.5 | 6195 | 1005 | 15.8 | 268 | 26.7 | 71.7 |
| | 151 | 328 | 218 | 66.5 | 325 | 1 | 0.3 | 0 | 0.0 | 66.5 |
| | 151B | 5742 | 3790 | 66.0 | 5600 | 946 | 16.5 | 270 | 28.5 | 70.7 |
| Buffalo | 33 | 9913 | 6454 | 65.1 | 9657 | 1531 | 15.4 | 345 | 22.5 | 68.6 |
| | 151 | 494 | 299 | 60.5 | 475 | 21 | 4.3 | 0 | 0.0 | 60.5 |
| | 151B | 8988 | 5665 | 63.0 | 8761 | 1485 | 16.5 | 434 | 29.2 | 67.9 |
| Columbus | 33 | 14485 | 9961 | 68.8 | 13633 | 1883 | 13.0 | 479 | 25.4 | 72.1 |
| | 151 | 444 | 280 | 63.1 | 402 | 1 | 0.2 | 0 | 0.0 | 63.1 |
| | 151B | 13654 | 9160 | 67.1 | 12852 | 1955 | 14.3 | 617 | 31.6 | 71.6 |
| Iowa | 33 | 901 | 649 | 72.0 | 901 | 133 | 14.8 | 47 | 35.3 | 77.2 |
| | 151 | 261 | 202 | 77.4 | 261 | 0 | 0.0 | 0 | 0.0 | 77.4 |
| | 151B | 402 | 293 | 72.9 | 402 | 77 | 19.2 | 27 | 35.1 | 79.6 |
| Seattle | 33 | 4237 | 2617 | 61.8 | 3722 | 455 | 10.7 | 82 | 18.0 | 63.7 |
| | 151 | 84 | 48 | 57.1 | 64 | 1 | 1.2 | 0 | 0.0 | 57.1 |
| | 151B | 3994 | 2385 | 59.7 | 3504 | 467 | 11.7 | 109 | 23.3 | 62.4 |
| Stanford | 33 | 11139 | 7725 | 69.4 | 10359 | 1080 | 9.7 | 290 | 26.9 | 72.0 |
| | 151 | 62 | 17 | 27.4 | 15 | 0 | 0.0 | 0 | 0.0 | 27.4 |
| | 151B | 10532 | 7073 | 67.2 | 9829 | 1266 | 12.0 | 459 | 36.3 | 71.5 |
| Tucson | 33 | 3119 | 2112 | 67.7 | 3114 | 519 | 16.6 | 123 | 23.7 | 71.7 |
| | 151 | 10 | 6 | 60.0 | 10 | 0 | 0.0 | 0 | 0.0 | 60.0 |
| | 151B | 2957 | 1961 | 66.3 | 2952 | 555 | 18.8 | 156 | 28.1 | 71.6 |
| Wake Forest | 33 | 10266 | 6668 | 65.0 | 9797 | 1908 | 18.6 | 460 | 24.1 | 69.4 |
| | 151 | 567 | 381 | 67.2 | 548 | 6 | 1.1 | 0 | 0.0 | 67.2 |
| | 151B | 9279 | 5842 | 63.0 | 8832 | 1862 | 20.1 | 512 | 27.5 | 68.5 |

¹ Form 33 = Medical History Update; Form 151 = Activities of Daily Life; Form 151B = Activities of Daily Life; Form 159 = Supplemental Questionnaire 2019.

² The MRC Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS who consented to WHI Extension Study 2010-2025.

³ The SRC Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study who consented to WHI Extension Study 2010-2025.

⁴ Regional Center is determined based on the participant's responsible clinic at the start of the mailing window (2 months prior to the participant's mailing anniversary).

Table 1.7
Response Rates to Regional Center Follow-up and Cumulative Response Extension Study 2010-2025, <u>Year 2019</u> by Cohort and Regional Center

Data as of: March 6, 2021

| | _ 1 | Eligible for RC Follow-up | Respon | | Total Estimated Response Rate |
|------------------------------|-------------------|---------------------------|--------|------|----------------------------------|
| Cohort | Form ¹ | N | N | % | % |
| Total | 33 | 16049 | 9970 | 62.1 | 86.3 |
| | 151 | 17380 | 2136 | 12.3 | 74.0 |
| | 151B | 591 | 44 | 7.4 | 16.4 |
| | 159 | 1485 | 42 | 2.8 | 70.5 |
| Medical Record | 33 | 4944 | 3274 | 66.2 | 83.5 |
| Cohort ² | 151 | 5340 | 781 | 14.6 | 67.6 |
| | 151B | 201 | 20 | 10.0 | 15.8 |
| | 159 | 430 | 16 | 3.7 | 64.8 |
| Self Report | 33 | 11105 | 6696 | 60.3 | 87.1 |
| Cohort ³ | 151 | 12040 | 1355 | 11.3 | 76.0 |
| | 151B | 390 | 24 | 6.2 | 16.7 |
| | 159 | 1055 | 26 | 2.5 | 72.4 |
| Regional Center ⁴ | | | | | |
| Boston | 33 | 1742 | 953 | 54.7 | 84.8 |
| | 151 | 1921 | 10 | 0.5 | 71.2 |
| | 151B | 72 | 1 | 1.4 | 9.4 |
| | 159 | 156 | 1 | 0.6 | 70.6 |
| Buffalo | 33 | 2713 | 1848 | 68.1 | 87.8 |
| | 151 | 2933 | 1043 | 35.6 | 79.7 |
| | 151B | 90 | 42 | 46.7 | 30.9 |
| | 159 | 256 | 38 | 14.8 | 74.1 |
| Columbus | 33 | 2470 | 1432 | 58.0 | 85.5 |
| | 151 | 2625 | 5 | 0.2 | 72.1 |
| | 151B | 50 | 0 | 0.0 | 10.3 |
| | 159 | 219 | 1 | 0.5 | 72.5 |
| Gainesville ⁵ | 33 | 694 | 450 | 64.8 | 85.9 |
| | 151 | 729 | 152 | 20.9 | 74.1 |
| | 159 | 178 | 1 | 0.6 | 66.6 |
| Iowa | 33 | 1023 | 537 | 52.5 | 85.2 |
| | 151 | 1133 | 10 | 0.9 | 75.8 |
| | 151B | 60 | 0 | 0.0 | 8.4 |
| | 159 | 104 | 0 | 0.0 | 74.5 |
| Seattle | 33 | 761 | 500 | 65.7 | 88.5 |
| | 151 | 813 | 69 | 8.5 | 74.4 |
| | 151B | 32 | 0 | 0.0 | 26.1 |
| | 159 | 82 | 0 | 0.0 | 68.6 |
| Stanford | 33 | 2487 | 1677 | 67.4 | 89.0 |
| | 151 | 2680 | 202 | 7.5 | 75.3 |
| | 151B | 87 | 0 | 0.0 | 21.8 |
| | 159 | 205 | 1 | 0.5 | 71.0 |

¹ Form 33 = Medical History Update; Form 151 = Activities of Daily Life; Form 151B = Activities of Daily Life; Form 159 = Supplemental Questionnaire 2019.

² The MRC Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS who consented to WHI Extension Study 2010-2025.

³ The SRC Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study who consented to WHI Extension Study 2010-2025.

⁴ Regional Center is determined based on the participant's responsible clinic at the start of the mailing window (2 months prior to the participant's mailing anniversary).

⁵ The Gainesville Regional Center closed in April 2019.

Table 1.7 (continued) Response Rates to Regional Center Follow-up and Cumulative Response Extension Study 2010-2025, <u>Year 2019</u> by Cohort and Regional Center

| | | Eligible for | | | Total Estimated |
|------------------------------|-------------------|--------------|--------|--------|-----------------|
| | | RC Follow-up | Respon | ndents | Response Rate |
| Regional Center ¹ | Form ² | N | N | % | % |
| Tucson | 33 | 1158 | 652 | 56.3 | 84.4 |
| | 151 | 1260 | 49 | 3.9 | 69.7 |
| | 151B | 49 | 0 | 0.0 | 15.5 |
| | 159 | 101 | 0 | 0.0 | 68.5 |
| Wake Forest | 33 | 3001 | 1921 | 64.0 | 84.5 |
| | 151 | 3286 | 596 | 18.1 | 71.2 |
| | 151B | 151 | 1 | 0.7 | 13.6 |
| | 159 | 184 | 0 | 0.0 | 64.2 |

¹ Regional Center is determined based on the participant's responsible clinic at the start of the mailing window (2 months prior to the participant's mailing anniversary).

² Form 33 = Medical History Update; Form 151 = Activities of Daily Life; Form 151B = Activities of Daily Life; Form 159 = Supplemental Questionnaire 2019.

Table 1.7 (continued) Regional Center Follow-up and Cumulat

Response Rates to Regional Center Follow-up and Cumulative Response Extension Study 2010-2025, <u>Year 2020</u> by Cohort and Regional Center

Data as of: March 6, 2021

| | | Eligible for | _ | | Total Estimated |
|------------------------------|-------------------|--------------|--------|------|-----------------|
| | | RC Follow-up | Respon | | Response Rate |
| Cohort | Form ¹ | N | N | % | % |
| Total | 33 | 19917 | 7816 | 39.2 | 74.3 |
| | 151 | 1572 | 51 | 3.2 | 46.2 |
| | 151B | 20188 | 1318 | 6.5 | 63.8 |
| Medical Record | 33 | 5628 | 2341 | 41.6 | 70.8 |
| Cohort ² | 151 | 481 | 18 | 3.7 | 39.0 |
| | 151B | 5726 | 354 | 6.2 | 57.5 |
| Self Report | 33 | 14289 | 5475 | 38.3 | 75.4 |
| Cohort ³ | 151 | 1091 | 33 | 3.0 | 48.8 |
| | 151B | 14462 | 964 | 6.7 | 65.8 |
| Regional Center ⁴ | | | | | |
| Boston | 33 | 2047 | 759 | 37.1 | 74.9 |
| | 151 | 204 | 0 | 0.0 | 48.2 |
| | 151B | 2050 | 129 | 6.3 | 64.7 |
| Buffalo | 33 | 3439 | 1535 | 44.6 | 75.0 |
| | 151 | 377 | 32 | 8.5 | 47.0 |
| | 151B | 3481 | 613 | 17.6 | 66.1 |
| Columbus | 33 | 4356 | 1453 | 33.4 | 73.1 |
| | 151 | 304 | 0 | 0.0 | 44.3 |
| | 151B | 4474 | 170 | 3.8 | 64.6 |
| Iowa | 33 | 163 | 144 | 88.3 | 83.6 |
| | 151 | 101 | 0 | 0.0 | 58.6 |
| | 151B | 103 | 0 | 0.0 | 63.9 |
| Seattle | 33 | 1746 | 571 | 32.7 | 68.3 |
| | 151 | 86 | 1 | 1.2 | 34.2 |
| | 151B | 1791 | 57 | 3.2 | 56.3 |
| Stanford | 33 | 3548 | 1195 | 33.7 | 74.1 |
| | 151 | 107 | 0 | 0.0 | 13.1 |
| | 151B | 3623 | 169 | 4.7 | 65.0 |
| Tucson | 33 | 982 | 413 | 42.1 | 76.1 |
| | 151 | 10 | 0 | 0.0 | 31.6 |
| | 151B | 1006 | 44 | 4.4 | 65.1 |
| Wake Forest | 33 | 3636 | 1746 | 48.0 | 76.3 |
| | 151 | 383 | 18 | 4.7 | 48.4 |
| | 151B | 3660 | 136 | 3.7 | 61.2 |

¹ Form 33 = Medical History Update; Form 151 = Activities of Daily Life; Form 151B = Activities of Daily Life; Form 159 = Supplemental Questionnaire 2019.

² The MRC Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS who consented to WHI Extension Study 2010-2025.

³ The SRC Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study who consented to WHI Extension Study 2010-2025.

⁴ Regional Center is determined based on the participant's responsible clinic at the start of the mailing window (2 months prior to the participant's mailing anniversary).

Table 1.8 Form 2 vs. Imputed Form 41 Race/ Ethnicity¹

| | | Imputed F41 Race/ Ethnicity ¹ | | | | | | | | | | | | | | |
|------------------------------------|-------------------------------------|--|---------------|-------|---------------------------|------|---------------------|-------|---|----------|-----------------------|------|-----------------------|------|-----------------------|--|
| | American Indian/Alaska Native | | Indian/Alaska | | Indian/Alaska Other Pacif | | Hispanic/ Latina | | Non-Hispanic Black/African American | | Non-Hispanic White | | More than one Race | | Other/Not reported | |
| | N | % | N | % | N | % | N | % | N | % | N | % | N | % | | |
| Form 2 Race/Ethnicity ¹ | | | | | | | | | | | | | | | | |
| American Indian/Alaska Native | 397 | 81.5 | 2 | < 0.1 | 27 | 0.4 | 38 | 0.3 | 137 | 0.1 | 108 | 6.5 | 4 | 0.5 | | |
| Asian/Pacific Islander | 0 | 0.0 | 3901 | 95.5 | 60 | 0.8 | 3 | < 0.1 | 31 | < 0.1 | 187 | 11.2 | 8 | 1.1 | | |
| Non-Hispanic Black/African | | | | | | | | | | | | | | | | |
| American | 28 | 5.7 | 2 | < 0.1 | 106 | 1.4 | 13958 | 98.5 | 167 | 0.1 | 296 | 17.7 | 61 | 8.0 | | |
| Hispanic/Latino | 2 | 0.4 | 2 | < 0.1 | 6230 | 85.2 | 18 | 0.1 | 208 | 0.2 | 5 | 0.3 | 19 | 2.5 | | |
| Non-Hispanic White | 47 | 9.7 | 11 | 0.3 | 637 | 8.7 | 36 | 0.3 | 131834 | 98.9 | 822 | 49.3 | 154 | 20.2 | | |
| Other/Unspecified | 13 | 2.7 | 166 | 4.1 | 252 | 3.4 | 114 | 0.8 | 951 | 0.7 | 251 | 15.0 | 515 | 67.7 | | |

¹ Race/ethnicity as identified on Form 2 at baseline.

² Native Hawaiian/Other Pacific Islander participants (n=119) are combined with Asian participants for reporting purposes due to small numbers.

Table 2.1 Participation and Vital Status: WHI Participants by Extension Study Participation and Cohort

Data as of: March 6, 2021 WHI Extension Study 2010-2025 Participants

| | MRC Cohort ¹ (N = 22,316) | | SRC C (N = 7) | | Total Participants (N = 93,567) | | |
|---|---|------|----------------------|------|--|------|--|
| | N | % | N | % | N | % | |
| Vital Status/Participation | | | | | | | |
| Deceased | 6916 | 31.0 | 22184 | 31.1 | 29100 | 31.1 | |
| Alive: Current Participation ³ | 12552 | 56.2 | 42300 | 59.4 | 54852 | 58.6 | |
| Alive: Recent Participation ⁴ | 1097 | 4.9 | 3158 | 4.4 | 4255 | 4.5 | |
| Stopped Follow-Up ⁵ | 858 | 3.8 | 2113 | 3.0 | 2971 | 3.2 | |
| Lost to Follow-Up ⁶ | 893 | 4.0 | 1496 | 2.1 | 2389 | 2.6 | |

Data as of: March 6, 2021; Status as of September 30, 2010

WHI Extension Study 2005-2010 Participants

| | MRC Sup | er Cohort ⁷ | SRC Supe | r Cohort ⁸ | Total Participants | | |
|--|---------|------------------------|----------|-----------------------|--------------------|------|--|
| | (N=2) | 9,368) | (N = 8) | 6,039) | (N = 115,407) | | |
| | N | % | N | % | N | % | |
| Vital Status/Participation | | | | | | | |
| Deceased | 2360 | 8.0 | 6211 | 7.2 | 8571 | 7.4 | |
| Alive: Current Participation ³ | 25884 | 88.1 | 78194 | 90.9 | 104078 | 90.2 | |
| Alive: Recent Participation ⁴ | 321 | 1.1 | 489 | 0.6 | 810 | 0.7 | |
| Alive: Past/Unknown Participation ⁹ | 32 | 0.1 | 39 | < 0.1 | 71 | 0.1 | |
| Stopped Follow-Up ⁵ | 459 | 1.6 | 794 | 0.9 | 1253 | 1.1 | |
| Lost to Follow-Up ⁶ | 312 | 1.1 | 312 | 0.4 | 624 | 0.5 | |

Data as of: March 6, 2021; Status as of April 8, 2005

WHI Participants

| | - | MRC Super Cohort ⁷ (N = 44,174) | | er Cohort ⁸ 17,634) | Total Participants (N = 161,808) | |
|---|-------|---|--------|-----------------------------------|---|-------|
| | N | N % | | N % | | % |
| Vital Status/Participation | | | | | | |
| Deceased | 2820 | 6.4 | 7232 | 6.1 | 10052 | 6.2 |
| Alive: Current Participation ¹⁰ | 38165 | 86.4 | 105585 | 89.8 | 143750 | 88.8 |
| Alive: Recent Participation ¹¹ | 342 | 0.8 | 419 | 0.4 | 761 | 0.5 |
| Alive: Past/Unknown Participation ¹² | 21 | < 0.1 | 41 | < 0.1 | 62 | < 0.1 |
| Stopped Follow-Up ⁵ | 1699 | 3.8 | 2757 | 2.3 | 4456 | 2.8 |
| Lost to Follow-Up ⁶ | 1127 | 2.6 | 1600 | 1.4 | 2727 | 1.7 |

¹ The MRC Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS who consented to WHI Extension Study 2010-2025.

² The SRC Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study who consented to WHI Extension Study 2010-2025.

³ Participants who have filled in a Form 33 within the last 15 months.

⁴ Participants who last filled in a Form 33 between 15 and 24 months ago.

⁵ Participants with codes 5 (no follow-up) or 8 (absolutely no follow-up) on Form 7 or 9.

⁶ Participants not in any of the above categories.

⁷ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

⁸ The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaskan Native, Asian/Pacific Islander, and Unknown Race/Ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study.

⁹ Participants without a Form 33 within the last 24 months, who have been located (as indicated on Form 23) within the last 6 months.

¹⁰ CT participants who have filled in a Form 33 within the last 9 months; and OS participants who have filled in a Form 33 within the last 15 months.

¹¹ CT participants who last filled in a Form 33 between 9 and 18 months ago; and OS participants who last filled in a Form 33 between 15 and 24 months ago.

¹² CT participants without a Form 33 within the last 18 months, who have been located (as indicated on Form 23) within the last 6 months; and OS participants without a Form 33 within the last 24 months, who have been located (as indicated on Form 23) within the last 6 months.

Table 2.2 Participation and Vital Status: WHI Extension Study 2010-2025 Participation by MRC vs. SRC Cohort

| | | MRC Cohort ¹ (N = 44,174) | | SRC Cohort² (N = 117,634) | | ticipants (1,808) |
|---|-------|---|-------|---|-------|----------------------|
| | N | % | N | % | N | % |
| Vital Status/Participation | | | | | | |
| Deceased | 12096 | 27.4 | 35627 | 30.3 | 47723 | 29.5 |
| Alive: Current Participation ³ | 12552 | 28.4 | 42300 | 36.0 | 54852 | 33.9 |
| Alive: Recent Participation ⁴ | 1097 | 2.5 | 3158 | 2.7 | 4255 | 2.6 |
| Stopped Follow-Up ⁵ | 17536 | 39.7 | 35053 | 29.8 | 52589 | 32.5 |
| Lost to Follow-Up ⁶ | 893 | 2.0 | 1496 | 1.3 | 2389 | 1.5 |

¹ The MRC Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS who consented to WHI Extension Study 2010-2025.

² The SRC Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study who consented to WHI Extension Study 2010-2025.

³ Participants who have filled in a Form 33 within the last 15 months.

⁴ Participants who last filled in a Form 33 between 15 and 24 months ago.

⁵ Participants with codes 5 (no follow-up) or 8 (absolutely no follow-up) on Form 7 or 9, or who did not consent to WHI Extension Study 2010-2025.

⁶ Participants not in any of the above categories.

Table 2.3 Proxy Follow-up Status¹: WHI Extension Study 2010-2025 Participants by <u>Cohort</u>, <u>Current Age</u>², and <u>Race/Ethnicity</u>

| | | | Current Age ² | | | | | | | |
|-------------------------|---------|--------|--------------------------|--------|------|--------|------|--------|------|----------|
| | To | tal | 69 | -79 | 80 | -84 | 85 | -89 | ≥ | 90 |
| | N | % | N | % | N | % | N | % | N | % |
| | | | | | | | | | | |
| MRC Cohort ³ | (N = 1) | 13649) | (N = | 3173) | (N = | 4273) | (N = | 3458) | (N = | 2745) |
| Proxy follow-up | 675 | 4.9 | 30 | 0.9 | 102 | 2.4 | 191 | 5.5 | 352 | 12.8 |
| | | | | | | | | | | |
| SRC Cohort ⁴ | (N = 4) | 15458) | (N = | 9502) | (N = | 14354) | (N = | 11970) | (N = | 9632) |
| Proxy follow-up | 2049 | 4.5 | 85 | 0.9 | 259 | 1.8 | 605 | 5.1 | 1100 | 11.4 |
| | | | | | | | | | | |
| Total | (N = 5) | 59107) | (N = | 12675) | (N = | 18627) | (N = | 15428) | (N = | 12377) |
| Proxy follow-up | 2724 | 4.6 | 115 | 0.9 | 361 | 1.9 | 796 | 5.2 | 1452 | 11.7 |

| | | | | | | | Race/E | thnicity | | | | | | |
|---|---------|-------------------|---------|------------------------------|--------|-------------------|---------|---------------|----------------|-----------------|---------|-----------------|--------|-----------------|
| | | | | an or | | | | | | | | | | |
| | Ame | erican | | tive aiian/ | Non-H | lispanic | | | | | | | | |
| | Inc | dian/ a Native | Other | Pacific nder ⁵ | Black/ | African erican | _ | anic/ tina | | ispanic nite | | than one ace | | er/Not orted |
| | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| MRC Cohort ³ | ` | = 30) | ` | : 162) | ` | 3727) | ` | 1739) | ` | 7751) | ` | = 194) | ` | = 46) |
| Proxy follow-up | 3 | 10.0 | 10 | 6.2 | 150 | 4.0 | 71 | 4.1 | 426 | 5.5 | 9 | 4.6 | 6 | 13.0 |
| SRC Cohort ⁴ Proxy follow-up | (N 4 | = 85) 4.7 | (N = 49 | 1146) 4.3 | (N = 5 | = 50) 10.0 | (N = 14 | 318) | (N = 4 1956 | 13290) 4.5 | (N = 18 | = 455) 4.0 | (N = 3 | = 114) 2.6 |
| | | | | | | | | | | | O.I. | C10) | | 4.40) |
| Total | (N = | = 115) | (N = | 1308) | (N = | 3777) | (N = | 2057) | (N=5) | 51041) | ` | = 649) | (N = | = 160) |
| Proxy follow-up | 7 | 6.1 | 59 | 4.5 | 155 | 4.1 | 85 | 4.1 | 2382 | 4.7 | 27 | 4.2 | 9 | 5.6 |

¹ For participants alive as of March 6, 2021 and with current, recent or past/unknown participation.

² Age on March 6, 2021.

³ The MRC Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants from the CT and OS who consented to WHI Extension Study 2010-2025.

⁴ The SRC Cohort includes all Non-Hispanic White, American Indian/Alaskan Native, Asian/Pacific Islander, and Unknown Race/Ethnicity participants from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study who consented to WHI Extension Study 2010-2020.

⁵ Native Hawaiian/Other Pacific Islander participants (n=47) are combined with Asian participants for reporting purposes due to small numbers.

Table 2.4 Participation and Vital Status: <u>CT and OS Participants</u>

Data as of: March 6, 2021 WHI Extension Study 2010-2025 Participants

| | CT Part (N = 4 | • | OS Participants (N = 52,068) | | |
|---|-------------------|------|-------------------------------------|------|--|
| | N | % | N | % | |
| Vital Status/Participation | | | | | |
| Deceased | 12613 | 30.4 | 16487 | 31.7 | |
| Alive: Current Participation ¹ | 24421 | 58.8 | 30431 | 58.4 | |
| Alive: Recent Participation ² | 1974 | 4.8 | 2281 | 4.4 | |
| Stopped Follow-Up ³ | 1337 | 3.2 | 1634 | 3.1 | |
| Lost to Follow-Up ⁴ | 1154 | 2.8 | 1235 | 2.4 | |

Data as of: March 6, 2021; Status as of September 30, 2010 WHI Extension Study 2005-2010 Participants

| | CT Part (N = 5 | - | OS Part i (N = 6.3 | - |
|--|-------------------|----------|------------------------------|------|
| | N | % | N | % |
| Vital Status/Participation | | | | |
| Deceased | 3812 | 7.3 | 4759 | 7.5 |
| Alive: Current Participation ¹ | 46883 | 89.9 | 57195 | 90.5 |
| Alive: Recent Participation ² | 442 | 0.8 | 368 | 0.6 |
| Alive: Past/Unknown Participation ⁵ | 37 | 0.1 | 34 | 0.1 |
| Stopped Follow-Up ³ | 649 | 1.2 | 604 | 1.0 |
| Lost to Follow-Up ⁴ | 353 | 0.7 | 271 | 0.4 |

Data as of: March 6, 2021; Status as of April 8, 2005 WHI Participants

| | CT Parti | | OS Participants | | |
|--|----------|--------|-----------------|-------|--|
| | (N = 68 | 8,132) | (N = 93) | ,676) | |
| | N | % | N | % | |
| Vital Status/Participation | | | | | |
| Deceased | 3701 | 5.4 | 6351 | 6.8 | |
| Alive: Current Participation ⁶ | 61160 | 89.8 | 82590 | 88.2 | |
| Alive: Recent Participation ⁷ | 339 | 0.5 | 422 | 0.5 | |
| Alive: Past/Unknown Participation ⁸ | 10 | < 0.1 | 52 | 0.1 | |
| Stopped Follow-Up ³ | 2194 | 3.2 | 2262 | 2.4 | |
| Lost to Follow-Up ⁴ | 728 | 1.1 | 1999 | 2.1 | |

¹ Participants who have filled in a Form 33 within the last 15 months.

² Participants who last filled in a Form 33 between 15 and 24 months ago.

³ Participants with codes 5 (no follow-up) or 8 (absolutely no follow-up) on Form 7 or 9.

⁴ Participants not in any of the above categories.

⁵ Participants without a Form 33 within the last 24 months, who have been located (as indicated on Form 23) within the last 6 months.

⁶ CT participants who have filled in a Form 33 within the last 9 months; OS participants who have filled in a Form 33 within the last 15 months.

⁷ CT participants who last filled in a Form 33 between 9 and 18 months ago; OS participants who last filled in a Form 33 between 15 and 24 months ago.

⁸ CT participants without a Form 33 within the last 18 months, who have been located (as indicated on Form 23) within the last 6 months; OS participants without a Form 33 within the last 24 months, who have been located (as indicated on Form 23) within the last 6 months.

Table 2.5 Participation and Vital Status: WHI Extension Study 2010-2025 Participation by CT vs. OS Cohort

| | CT Part (N = 6 | - | OS Participants (N = 93,676) | | |
|---|-----------------------|------|-------------------------------------|------|--|
| | N | % | N | % | |
| Vital Status/Participation | | | | | |
| Deceased | 20126 | 29.5 | 27597 | 29.5 | |
| Alive: Current Participation ¹ | 24421 | 35.8 | 30431 | 32.5 | |
| Alive: Recent Participation ² | 1974 | 2.9 | 2281 | 2.4 | |
| Stopped Follow-Up ³ | 20457 | 30.0 | 32132 | 34.3 | |
| Lost to Follow-Up ⁴ | 1154 | 1.7 | 1235 | 1.3 | |

¹ Participants who have filled in a Form 33 within the last 15 months.

² Participants who last filled in a Form 33 between 15 and 24 months ago.

³ Participants with codes 5 (no follow-up) or 8 (absolutely no follow-up) on Form 7 or 9, or who did not consent to WHI Extension Study 2010-2025.

⁴ Participants not in any of the above categories.

Table 2.6
Cause of Death¹ (Annualized Percentages): MRC and SRC Super Cohort Participants

Data as of: March 6, 2021; Events through March 6, 2021

| | MRC Super Cohort ² | SRC Super Cohort ³ |
|---------------------------------|-------------------------------|-------------------------------|
| Number of participants | 44174 | 117634 |
| Mean follow-up (months) | 239.4 | 241.2 |
| Total death | 19430 (2.21%) | 52547 (2.22%) |
| Adjudicated death | 19009 (2.16%) | 49553 (2.10%) |
| Centrally adjudicated death | 9141 (1.04%) | 7413 (0.31%) |
| Locally adjudicated death | 679 (0.08%) | 4681 (0.20%) |
| Identified by NDI search | 9189 (1.04%) | 37459 (1.58%) |
| Not yet adjudicated | 413 (0.05%) | 0 (0.00%) |
| Form 120 death ⁴ | 8 (<0.01%) | 2994 (0.13%) |
| Cardiovascular | | |
| Atherosclerotic cardiac | 2755 (0.31%) | 6224 (0.26%) |
| Definite CHD deaths after 10/99 | 1045 (0.12%) | 1955 (0.08%) |
| Possible CHD deaths after 10/99 | 1710 (0.19%) | 4224 (0.18%) |
| Cerebrovascular | 1572 (0.18%) | 3798 (0.16%) |
| Pulmonary embolism | 112 (0.01%) | 210 (0.01%) |
| Other cardiovascular | 2037 (0.23%) | 5695 (0.24%) |
| Unknown cardiovascular | 34 (<0.01%) | 101 (<0.01%) |
| Total cardiovascular deaths | 6510 (0.74%) | 16028 (0.68%) |
| Cancer | | |
| Breast cancer | 483 (0.05%) | 1533 (0.06%) |
| Ovarian cancer | 235 (0.03%) | 852 (0.04%) |
| Endometrial cancer | 54 (0.01%) | 224 (0.01%) |
| Colorectal cancer | 426 (0.05%) | 985 (0.04%) |
| Uterus cancer | 55 (0.01%) | 135 (0.01%) |
| Lung cancer | 1144 (0.13%) | 2648 (0.11%) |
| Pancreas cancer | 432 (0.05%) | 1125 (0.05%) |
| Lymphoma (NHL only) | 189 (0.02%) | 635 (0.03%) |
| Leukemia | 184 (0.02%) | 593 (0.03%) |
| Melanoma | 50 (0.01%) | 161 (0.01%) |
| Brain cancer | 86 (0.01%) | 349 (0.01%) |
| Multiple myeloma | 170 (0.02%) | 360 (0.02%) |
| Other cancer | 882 (0.10%) | 2386 (0.10%) |
| Unknown cancer site | 183 (0.02%) | 568 (0.02%) |
| Total cancer deaths | 4573 (0.52%) | 12554 (0.53%) |
| Accident/injury | | |
| Homicide | 17 (<0.01%) | 19 (<0.01%) |
| Accident | 431 (0.05%) | 1282 (0.05%) |
| Suicide | 18 (<0.01%) | 63 (<0.01%) |
| Other injury | 20 (<0.01%) | 36 (<0.01%) |
| Total accident/injury deaths | 486 (0.06%) | 1400 (0.06%) |

¹ Includes deaths for non-Extension Study participants after the main WHI study close-out. Annualized rates incorporate additional follow-up from the NDI search.

² The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

³ The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study.

⁴ Includes SRC Cohort participants and discovered deaths among non-Extension Study 2010-2025 participants that occurred during Extension Study 2010-2025.

Table 2.6 (continued) Cause of Death¹ (Annualized Percentages): MRC and SRC Super Cohort Participants

| | MRC Super Cohort ² | SRC Super Cohort ³ |
|----------------------------------|-------------------------------|-------------------------------|
| Number of participants | 44174 | 117634 |
| Mean follow-up (months) | 239.4 | 241.2 |
| Other | | |
| Alzheimer's disease | 1177 (0.13%) | 3631 (0.15%) |
| COPD | 752 (0.09%) | 2055 (0.09%) |
| Pneumonia | 510 (0.06%) | 1213 (0.05%) |
| Pulmonary fibrosis | 199 (0.02%) | 506 (0.02%) |
| Renal failure | 440 (0.05%) | 734 (0.03%) |
| Sepsis | 527 (0.06%) | 1084 (0.05%) |
| Dementia, other than Alzheimer's | 1258 (0.14%) | 3579 (0.15%) |
| Amyotrophic lateral sclerosis | 49 (0.01%) | 239 (0.01%) |
| Parkinson's | 219 (0.02%) | 773 (0.03%) |
| Hepatic cirrhosis | 105 (0.01%) | 214 (0.01%) |
| COVID-19 | 16 (<0.01%) | 31 (<0.01%) |
| Other known cause | 2000 (0.23%) | 6012 (0.25%) |
| Unknown cause | 196 (0.02%) | 2494 (0.11%) |
| Total other cause deaths | 7448 (0.85%) | 22565 (0.95%) |

¹ Includes deaths for non-Extension Study participants after the main WHI study close-out. Annualized rates incorporate additional follow-up from the NDI search.

² The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

³ The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study.

Data as of: March 6, 2021; Events through March 6, 2021

| | CT | OS | Total |
|-----------------------------------|------------------------------|----------------------------|------------------------------|
| Number of participants | 68132 | 93676 | 161808 |
| Mean follow-up (months) | 245.9 | 236.9 | 240.7 |
| Total death | 29136 (2.09%) | 42841 (2.32%) | 71977 (2.22%) |
| Adjudicated death | 27830 (1.99%) | 40732 (2.20%) | 68562 (2.11%) |
| Centrally adjudicated death | 11355 (0.81%) | 5199 (0.28%) | 16554 (0.51%) |
| Locally adjudicated death (final) | 1 (<0.01%) | 5359 (0.29%) | 5360 (0.17%) |
| Identified by NDI search | 16474 (1.18%) | 30174 (1.63%) | 46648 (1.44%) |
| Not yet adjudicated | 346 (0.02%) | 67 (<0.01%) | 413 (0.01%) |
| Form 120 death ² | 960 (0.07%) | 2042 (0.11%) | 3002 (0.09%) |
| Cardiovascular | | | |
| Atherosclerotic cardiac | 3730 (0.27%) | 5249 (0.28%) | 8979 (0.28%) |
| Definite CHD deaths after 10/99 | 1394 (0.10%) | 1606 (0.09%) | 3000 (0.09%) |
| Possible CHD deaths after 10/99 | 2323 (0.17%) | 3611 (0.20%) | 5934 (0.18%) |
| Cerebrovascular | 2190 (0.16%) | 3180 (0.17%) | 5370 (0.17%) |
| Pulmonary embolism | 160 (0.01%) | 162 (0.01%) | 322 (0.01%) |
| Other cardiovascular | 3097 (0.22%) | 4635 (0.25%) | 7732 (0.24%) |
| Unknown cardiovascular | 31 (<0.01%) | 104 (0.01%) | 135 (<0.01%) |
| Total cardiovascular deaths | 9208 (0.66%) | 13330 (0.72%) | 22538 (0.69%) |
| Cancer | | | |
| Breast cancer | 658 (0.05%) | 1358 (0.07%) | 2016 (0.06%) |
| Ovarian cancer | 424 (0.03%) | 663 (0.04%) | 1087 (0.03%) |
| Endometrial cancer | 120 (0.01%) | 158 (0.01%) | 278 (0.01%) |
| Colorectal cancer | 606 (0.04%) | 805 (0.04%) | 1411 (0.04%) |
| Uterus cancer | 80 (0.01%) | 110 (0.01%) | 190 (0.01%) |
| Lung cancer | 1651 (0.12%) | 2141 (0.12%) | 3792 (0.12%) |
| Pancreas cancer | 662 (0.05%) | 895 (0.05%) | 1557 (0.05%) |
| Lymphoma (NHL only) | 325 (0.02%) | 499 (0.03%) | 824 (0.03%) |
| Leukemia | 329 (0.02%) | 448 (0.02%) | 777 (0.02%) |
| Melanoma | 94 (0.01%) | 117 (0.01%) | 211 (0.01%) |
| Brain cancer | 189 (0.01%) | 246 (0.01%) | 435 (0.01%) |
| Multiple myeloma | 228 (0.02%) | 302 (0.02%) | 530 (0.02%) |
| Other cancer | 1378 (0.10%) | 1890 (0.10%) | 3268 (0.10%) |
| Unknown cancer site | 304 (0.02%) | 447 (0.02%) | 751 (0.02%) |
| Total cancer deaths | 7048 (0.50%) | 10079 (0.54%) | 17127 (0.53%) |
| Accident/injury Homicide | 15 (.0.010/) | 21 (-0.010/) | 26 (-0.010/) |
| Accident | 15 (<0.01%) | 21 (<0.01%) | 36 (<0.01%) |
| Suicide | 695 (0.05%) | 1018 (0.06%) | 1713 (0.05%) |
| Other injury | 27 (<0.01%) 24 (<0.01%) | 54 (<0.01%) 32 (<0.01%) | 81 (<0.01%) 56 (<0.01%) |
| Total accident/injury deaths | 761 (0.05%) | 1125 (0.06%) | 1886 (0.06%) |
| Other | 701 (0.03%) | 1123 (0.00%) | 1880 (0.00%) |
| Alzheimer's disease | 1856 (0.13%) | 2952 (0.16%) | 4909 (0.15%) |
| COPD | 1856 (0.13%) 1182 (0.08%) | 1625 (0.16%) | 4808 (0.15%) 2807 (0.09%) |
| Pneumonia | 727 (0.05%) | 996 (0.05%) | 1723 (0.05%) |
| Pulmonary fibrosis | 320 (0.02%) | 385 (0.02%) | 705 (0.02%) |
| Renal failure | 488 (0.03%) | 686 (0.04%) | 1174 (0.04%) |
| Sepsis | 694 (0.05%) | 917 (0.05%) | 1611 (0.05%) |
| Dementia, other than Alzheimer's | 1926 (0.14%) | 2911 (0.16%) | 4837 (0.15%) |
| Amyotrophic lateral sclerosis | 112 (0.01%) | 176 (0.01%) | 288 (0.01%) |
| Parkinson's | 377 (0.03%) | 615 (0.03%) | 992 (0.03%) |
| Hepatic cirrhosis | 143 (0.01%) | 176 (0.01%) | 319 (0.01%) |
| COVID-19 | 22 (<0.01%) | 25 (<0.01%) | 47 (<0.01%) |
| Other known cause | 3000 (0.21%) | 5012 (0.27%) | 8012 (0.25%) |
| Unknown cause | 926 (0.07%) | 1764 (0.10%) | 2690 (0.08%) |
| Total other cause deaths | 11773 (0.84%) | 18240 (0.99%) | 30013 (0.92%) |

¹ Includes deaths for non-Extension study participants after the main WHI study close-out. Annualized rates incorporate additional follow-up from the NDI search.

² Includes SRC Cohort participants and discovered deaths among non-Extension Study 2010-2025 participants that occurred during Extension Study 2010-2025.

Table 2.8
Cause of Death Excluding Discovered Deaths Among Non-Extension Study Participants¹ (Annualized Percentages):

CT and OS Participants

| | | CT | | OS |] | Total |
|-----------------------------------|-------|----------|-------|----------|-------|----------|
| Number of participants | 6 | 8132 | 93676 | | 10 | 51808 |
| Mean follow-up (months) | 2 | 207.7 | 1 | 192.3 | 1 | 98.8 |
| Death | 20126 | (1.71%) | 27597 | (1.84%) | 47723 | (1.78%) |
| Adjudicated death | 18827 | (1.60%) | 25498 | (1.70%) | 44325 | (1.65%) |
| Centrally adjudicated death | 11280 | (0.96%) | 5120 | (0.34%) | 16400 | (0.61%) |
| Locally adjudicated death (final) | 1 | (<0.01%) | 5283 | (0.35%) | 5284 | (0.20%) |
| Identified by NDI search | 7546 | (0.64%) | 15095 | (1.01%) | 22641 | (0.84%) |
| Not yet adjudicated | 346 | (0.03%) | 67 | (<0.01%) | 413 | (0.02%) |
| Form 120 death ² | 953 | (0.08%) | 2032 | (0.14%) | 2985 | (0.11%) |
| Cardiovascular | | | | | | |
| Atherosclerotic cardiac | 2605 | (0.22%) | 3264 | (0.22%) | 5869 | (0.22%) |
| Definite CHD deaths after 10/99 | 1178 | (0.10%) | 1287 | (0.09%) | 2465 | (0.09%) |
| Possible CHD deaths after 10/99 | 1414 | (0.12%) | 1945 | (0.13%) | 3359 | (0.13%) |
| Cerebrovascular | 1526 | (0.13%) | 2025 | (0.13%) | 3551 | (0.13%) |
| Pulmonary embolism | 134 | (0.01%) | 133 | (0.01%) | 267 | (0.01%) |
| Other cardiovascular | 2018 | (0.17%) | 2908 | (0.19%) | 4926 | (0.18%) |
| Unknown cardiovascular | 29 | (<0.01%) | 103 | (0.01%) | 132 | (<0.01%) |
| Total cardiovascular deaths | 6312 | (0.54%) | 8433 | (0.56%) | 14745 | (0.55%) |
| Cancer | | | | | | |
| Breast cancer | 491 | (0.04%) | 1043 | (0.07%) | 1534 | (0.06%) |
| Ovarian cancer | 343 | (0.03%) | 529 | (0.04%) | 872 | (0.03%) |
| Endometrial cancer | 101 | (0.01%) | 123 | (0.01%) | 224 | (0.01%) |
| Colorectal cancer | 475 | (0.04%) | 606 | (0.04%) | 1081 | (0.04%) |
| Uterus cancer | 59 | (0.01%) | 77 | (0.01%) | 136 | (0.01%) |
| Lung cancer | 1310 | (0.11%) | 1629 | (0.11%) | 2939 | (0.11%) |
| Pancreas cancer | 534 | (0.05%) | 664 | (0.04%) | 1198 | (0.04%) |
| Lymphoma (NHL only) | 262 | (0.02%) | 383 | (0.03%) | 645 | (0.02%) |
| Leukemia | 267 | (0.02%) | 341 | (0.02%) | 608 | (0.02%) |
| Melanoma | 79 | (0.01%) | 99 | (0.01%) | 178 | (0.01%) |
| Brain cancer | 159 | (0.01%) | 184 | (0.01%) | 343 | (0.01%) |
| Multiple myeloma | 184 | (0.02%) | 238 | (0.02%) | 422 | (0.02%) |
| Other cancer | 1089 | (0.09%) | 1463 | (0.10%) | 2552 | (0.10%) |
| Unknown cancer site | 226 | (0.02%) | 320 | (0.02%) | 546 | (0.02%) |
| Total cancer deaths | 5579 | (0.47%) | 7699 | (0.51%) | 13278 | (0.50%) |
| Accident/injury | | | | | | |
| Homicide | 15 | (<0.01%) | 18 | (<0.01%) | 33 | (<0.01%) |
| Accident | 498 | (0.04%) | 648 | (0.04%) | 1146 | (0.04%) |
| Suicide | 26 | ` / | 45 | (<0.01%) | 71 | (<0.01%) |
| Other injury | 24 | (<0.01%) | 30 | (<0.01%) | 54 | (<0.01%) |
| Total accident/injury deaths | 563 | (0.05%) | 741 | (0.05%) | 1304 | (0.05%) |

¹ Excludes deaths that occurred after a participant's consent period.

² Includes SRC Cohort participants.

Table 2.8 (continued)

Cause of Death Excluding Discovered Deaths Among Non-Extension Study Participants¹ (Annualized Percentages): CT and OS Participants

| | CT | OS | Total | |
|----------------------------------|--------------|---------------|---------------|--|
| Number of participants | 68132 | 93676 | 161808 | |
| Mean follow-up (months) | 207.7 | 192.3 | 198.8 | |
| Other | | | | |
| Alzheimer's disease | 888 (0.08%) | 1232 (0.08%) | 2120 (0.08%) | |
| COPD | 806 (0.07%) | 1021 (0.07%) | 1827 (0.07%) | |
| Pneumonia | 549 (0.05%) | 626 (0.04%) | 1175 (0.04%) | |
| Pulmonary fibrosis | 248 (0.02%) | 285 (0.02%) | 533 (0.02%) | |
| Renal failure | 330 (0.03%) | 419 (0.03%) | 749 (0.03%) | |
| Sepsis | 492 (0.04%) | 574 (0.04%) | 1066 (0.04%) | |
| Dementia, other than Alzheimer's | 912 (0.08%) | 1163 (0.08%) | 2075 (0.08%) | |
| Amyotrophic lateral sclerosis | 93 (0.01%) | 129 (0.01%) | 222 (0.01%) | |
| Parkinson's | 206 (0.02%) | 325 (0.02%) | 531 (0.02%) | |
| Hepatic cirrhosis | 110 (0.01%) | 120 (0.01%) | 230 (0.01%) | |
| COVID-19 | 22 (<0.01%) | 25 (<0.01%) | 47 (<0.01%) | |
| Other known cause | 1772 (0.15%) | 3043 (0.20%) | 4815 (0.18%) | |
| Unknown cause | 898 (0.08%) | 1695 (0.11%) | 2593 (0.10%) | |
| Total other cause deaths | 7326 (0.62%) | 10657 (0.71%) | 17983 (0.67%) | |

¹ Excludes deaths that occurred after a participant's consent period.

Table 3.1

Verified Outcomes (Annualized Percentages) by Age at Enrollment for MRC Super Cohort Participants¹

Data as of: March 6, 2021; Events through March 6, 2021

| | | Age at Enrollment | | | | | | |
|--|---------------|-------------------|--------------|--------------|--------------|--|--|--|
| Outcomes | Total | 50-54 55-59 | | 60-69 | 70-79 | | | |
| Number randomized | 44174 | 6788 | 9352 | 19418 | 8616 | | | |
| Mean follow-up (months) | 185.8 | 200.7 | 201.1 | 186.8 | 155.2 | | | |
| Cardiovascular | | | | | | | | |
| CHD ² | 3838 (0.56%) | 267 (0.24%) | 487 (0.31%) | 1832 (0.61%) | 1252 (1.12%) | | | |
| CHD death ³ | 1771 (0.26%) | 80 (0.07%) | 160 (0.10%) | 796 (0.26%) | 735 (0.66%) | | | |
| Clinical MI | 2558 (0.37%) | 201 (0.18%) | 372 (0.24%) | 1260 (0.42%) | 725 (0.65%) | | | |
| Angina ⁴ | 1625 (0.47%) | 114 (0.20%) | 226 (0.30%) | 785 (0.52%) | 500 (0.76%) | | | |
| CABG/PTCA | 3111 (0.45%) | 260 (0.23%) | 530 (0.34%) | 1594 (0.53%) | 727 (0.65%) | | | |
| Carotid artery disease | 531 (0.08%) | 27 (0.02%) | 86 (0.05%) | 287 (0.09%) | 131 (0.12%) | | | |
| Congestive heart failure, WHI ⁴ | 1246 (0.36%) | 84 (0.15%) | 145 (0.19%) | 531 (0.35%) | 486 (0.74%) | | | |
| Heart failure, UNC ⁵ | 3231 (0.63%) | 202 (0.26%) | 381 (0.33%) | 1543 (0.67%) | 1105 (1.23%) | | | |
| Stroke | 3164 (0.46%) | 217 (0.19%) | 401 (0.26%) | 1557 (0.52%) | 989 (0.89%) | | | |
| PAD | 710 (0.10%) | 48 (0.04%) | 118 (0.08%) | 364 (0.12%) | 180 (0.16%) | | | |
| DVT | 1379 (0.20%) | 129 (0.11%) | 254 (0.16%) | 661 (0.22%) | 335 (0.30%) | | | |
| Pulmonary embolism | 1132 (0.17%) | 121 (0.11%) | 214 (0.14%) | 533 (0.18%) | 264 (0.24%) | | | |
| DVT/PE | 2017 (0.29%) | 195 (0.17%) | 375 (0.24%) | 969 (0.32%) | 478 (0.43%) | | | |
| Coronary disease ⁶ | 7897 (1.15%) | 602 (0.53%) | 1124 (0.72%) | 3764 (1.25%) | 2407 (2.16%) | | | |
| Aortic aneurysm ⁷ | 77 (0.04%) | 6 (0.02%) | 11 (0.02%) | 48 (0.06%) | 12 (0.06%) | | | |
| Valvular heart disease ⁷ | 550 (0.30%) | 39 (0.11%) | 86 (0.18%) | 310 (0.38%) | 115 (0.56%) | | | |
| Total cardiovascular disease ⁸ | 11120 (1.63%) | 821 (0.72%) | 1588 (1.01%) | 5321 (1.76%) | 3390 (3.04%) | | | |
| Cancer | | | | | | | | |
| Breast cancer | 3042 (0.44%) | 475 (0.42%) | 700 (0.45%) | 1370 (0.45%) | 497 (0.45%) | | | |
| Invasive breast cancer | 2505 (0.37%) | 373 (0.33%) | 574 (0.37%) | 1120 (0.37%) | 438 (0.39%) | | | |
| In-situ breast cancer | 595 (0.09%) | 109 (0.10%) | 137 (0.09%) | 282 (0.09%) | 67 (0.06%) | | | |
| Ovarian cancer | 289 (0.04%) | 30 (0.03%) | 62 (0.04%) | 145 (0.05%) | 52 (0.05%) | | | |
| Endometrial cancer ⁹ | 342 (0.09%) | 55 (0.09%) | 90 (0.10%) | 145 (0.08%) | 52 (0.08%) | | | |
| Colorectal cancer | 983 (0.14%) | 93 (0.08%) | 154 (0.10%) | 486 (0.16%) | 250 (0.22%) | | | |
| Other cancer ¹⁰ | 4446 (0.65%) | 441 (0.39%) | 831 (0.53%) | 2179 (0.72%) | 995 (0.89%) | | | |
| Total cancer | 8409 (1.23%) | 1015 (0.89%) | 1710 (1.09%) | 3977 (1.32%) | 1707 (1.53%) | | | |
| Fractures | | | | | | | | |
| Hip fracture | 1724 (0.25%) | 66 (0.06%) | 170 (0.11%) | 783 (0.26%) | 705 (0.63%) | | | |
| Deaths | | | | | | | | |
| Cardiovascular deaths | 4093 (0.60%) | 173 (0.15%) | 381 (0.24%) | 1842 (0.61%) | 1697 (1.52%) | | | |
| Cancer deaths | 3361 (0.49%) | 279 (0.25%) | 545 (0.35%) | 1659 (0.55%) | 878 (0.79%) | | | |
| Other known cause | 4062 (0.59%) | 204 (0.18%) | 438 (0.28%) | 1948 (0.64%) | 1472 (1.32%) | | | |
| Unknown cause | 167 (0.02%) | 10 (0.01%) | 29 (0.02%) | 84 (0.03%) | 44 (0.04%) | | | |
| Not yet adjudicated | 413 (0.06%) | 26 (0.02%) | 66 (0.04%) | 231 (0.08%) | 90 (0.08%) | | | |
| Total death ¹¹ | 19430 (2.21%) | 1081 (0.71%) | 2324 (1.14%) | 9096 (2.36%) | 6929 (4.93%) | | | |

¹ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

² "CHD" includes clinical MI, evolving Q-wave MI, and CHD death; Q-wave MI is not collected in the WHI Extension Studies 2005-2025.

³ "CHD death" includes definite and possible CHD death.

⁴ Angina and CHF are not verified outcomes in the WHI Extension Studies 2005-2025. Reported statistics represent experience during the original program.

⁵ Definite or possible decompensated heart failure adjudicated by UNC.

⁶ "Coronary disease" includes clinical MI, evolving Q-wave MI, possible evolving Q-wave MI, CHD death, angina, congestive heart failure, UNC heart failure, and CABG/PTCA; Q-wave MI, angina, and congestive heart failure are not collected in the WHI Extension Studies 2005-2025.

⁷ Aortic aneurysm and valvular heart disease are new adjudicated outcomes during the WHI Extension Study 2010-2025.

⁸ Total CVD does not include aortic aneurysm or valvular heart disease.

⁹ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial cancer.

¹⁰ Only one report of "other cancer" is counted per woman; however, the first of each type is adjudicated. Excludes non-melanoma skin cancer.

¹¹ Includes deaths for non-Extension study participants after the main WHI study close-out. Annualized rates incorporate additional follow-up from the NDI search.

Table 3.2
Verified Outcomes (Annualized Percentages) by <u>Race/Ethnicity</u> for <u>MRC Super Cohort Participants</u>¹

| | Race/Ethnicity | | | | | | |
|--|---------------------|----------------------------|---------------|-------------------------------|--------------|-------------|--------------|
| | | Asian or Native | | | | | |
| | American Indian/ | Hawaiian/ Other Pacific | Hispanic/ | Non-Hispanic Black/African | Non-Hispanic | More than | Other/ |
| Outcomes | Alaska Native | Islander ² | Latina Latina | American | White | one Race | Not Reported |
| Number randomized | 108 | 526 | 6525 | 14025 | 22278 | 550 | 162 |
| Mean follow-up (months) | 167.3 | 179.3 | 161.5 | 169.1 | 203.3 | 206.9 | 163.9 |
| Cardiovascular | | | | | | | |
| CHD^3 | 8 (0.53%) | 34 (0.43%) | 274 (0.31%) | 1048 (0.53%) | 2407 (0.64%) | 50 (0.53%) | 17 (0.77%) |
| CHD death ⁴ | 4 (0.27%) | 12 (0.15%) | 104 (0.12%) | 572 (0.29%) | 1044 (0.28%) | 24 (0.25%) | 11 (0.50%) |
| Clinical MI | 6 (0.40%) | 27 (0.34%) | 201 (0.23%) | 619 (0.31%) | 1663 (0.44%) | 33 (0.35%) | 9 (0.41%) |
| Angina ⁵ | 7 (0.85%) | 16 (0.39%) | 160 (0.33%) | 532 (0.49%) | 886 (0.49%) | 16 (0.35%) | 8 (0.67%) |
| CABG/PTCA | 7 (0.46%) | 23 (0.29%) | 298 (0.34%) | 742 (0.38%) | 1996 (0.53%) | 36 (0.38%) | 9 (0.41%) |
| Carotid artery disease | 4 (0.27%) | 3 (0.04%) | 26 (0.03%) | 94 (0.05%) | 396 (0.10%) | 7 (0.07%) | 1 (0.05%) |
| Congestive heart failure, WHI ⁵ | 2 (0.24%) | 9 (0.22%) | 93 (0.19%) | 466 (0.43%) | 658 (0.36%) | 15 (0.33%) | 3 (0.25%) |
| Heart failure, UNC ⁶ | 9 (0.79%) | 22 (0.28%) | 196 (0.22%) | 816 (2.02%) | 2128 (0.58%) | 49 (0.89%) | 11 (1.04%) |
| Stroke | 7 (0.46%) | 22 (0.28%) | 247 (0.28%) | 905 (0.46%) | 1920 (0.51%) | 50 (0.53%) | 13 (0.59%) |
| PAD | 1 (0.07%) | 7 (0.09%) | 40 (0.05%) | 248 (0.13%) | 401 (0.11%) | 10 (0.11%) | 3 (0.14%) |
| DVT | 5 (0.33%) | 2 (0.03%) | 84 (0.10%) | 369 (0.19%) | 897 (0.24%) | 17 (0.18%) | 5 (0.23%) |
| Pulmonary embolism | 5 (0.33%) | 2 (0.03%) | 52 (0.06%) | 339 (0.17%) | 715 (0.19%) | 14 (0.15%) | 5 (0.23%) |
| DVT/PE | 8 (0.53%) | 3 (0.04%) | 114 (0.13%) | 579 (0.29%) | 1279 (0.34%) | 26 (0.27%) | 8 (0.36%) |
| Coronary disease ⁷ | 19 (1.26%) | 64 (0.81%) | 630 (0.72%) | 2215 (1.12%) | 4836 (1.28%) | 102 (1.08%) | 31 (1.40%) |
| Aortic aneurysm ⁸ | 0 (0.00%) | 2 (0.10%) | 5 (0.02%) | 19 (0.04%) | 48 (0.04%) | 3 (0.11%) | 0 (0.00%) |
| Valvular heart disease ⁸ | 0 (0.00%) | 4 (0.20%) | 53 (0.25%) | 71 (0.15%) | 412 (0.38%) | 9 (0.34%) | 1 (0.17%) |
| Total cardiovascular disease ⁹ | 24 (1.59%) | 90 (1.15%) | 882 (1.00%) | 3161 (1.60%) | 6764 (1.79%) | 157 (1.66%) | 42 (1.90%) |

¹ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants from the CT and OS (identified from race/ethnicity collected on Form 2 at baseline. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines.

² Native Hawaiian/Other Pacific Islander MRC Super Cohort participants (n=40) are combined with Asian MRC Super Cohort participants for reporting purposes due to small numbers.

³ "CHD" includes clinical MI, evolving O-wave MI, and CHD death; O-wave MI is not collected in the WHI Extension Studies 2005-2025.

⁴ "CHD death" includes definite and possible CHD death.

⁵ Angina and CHF are not verified outcomes in the WHI Extension Studies 2005-2025. Reported statistics represent experience during the original program.

⁶ Definite or possible decompensated heart failure adjudicated by UNC.

⁷ "Coronary disease" includes clinical MI, evolving Q-wave MI, possible evolving Q-wave MI, CHD death, angina, congestive heart failure, UNC heart failure, and CABG/PTCA; Q-wave MI, angina and congestive heart failure are not collected in the WHI Extension Studies 2005-2025.

⁸ Aortic aneurysm and valvular heart disease are new adjudicated outcomes during the WHI Extension Study 2010-2025.

⁹ Total CVD does not include aortic aneurysm or valvular heart disease.

Table 3.2 (continued)

Verified Outcomes (Annualized Percentages) by Race/Ethnicity for MRC Super Cohort Participants¹

| | Race/Ethnicity | | | | | | |
|---------------------------------|----------------|-----------------------|--------------|---------------|---------------|-------------|--------------|
| | | Asian or Native | | | | | |
| | American | Hawaiian/ | | Non-Hispanic | | | _ |
| | Indian/ | Other Pacific | Hispanic/ | Black/African | Non-Hispanic | More than | Other/ |
| Outcomes | Alaska Native | Islander ² | Latina | American | White | one Race | Not Reported |
| Number randomized | 108 | 526 | 6525 | 14025 | 22278 | 550 | 162 |
| Mean follow-up (months) | 167.3 | 179.3 | 161.5 | 169.1 | 203.3 | 206.9 | 163.9 |
| Breast cancer | 6 (0.40%) | 35 (0.45%) | 322 (0.37%) | 917 (0.46%) | 1715 (0.45%) | 39 (0.41%) | 8 (0.36%) |
| Invasive breast cancer | 6 (0.40%) | 27 (0.34%) | 264 (0.30%) | 738 (0.37%) | 1429 (0.38%) | 33 (0.35%) | 8 (0.36%) |
| In situ breast cancer | 0 (0.00%) | 9 (0.11%) | 64 (0.07%) | 203 (0.10%) | 313 (0.08%) | 6 (0.06%) | 0 (0.00%) |
| Ovarian cancer | 2 (0.13%) | 2 (0.03%) | 37 (0.04%) | 75 (0.04%) | 168 (0.04%) | 4 (0.04%) | 1 (0.05%) |
| Endometrial cancer ³ | 2 (0.26%) | 2 (0.04%) | 32 (0.07%) | 88 (0.10%) | 216 (0.09%) | 1 (0.02%) | 1 (0.08%) |
| Colorectal cancer | 1 (0.07%) | 13 (0.17%) | 86 (0.10%) | 296 (0.15%) | 566 (0.15%) | 17 (0.18%) | 4 (0.18%) |
| Other cancer ⁴ | 13 (0.86%) | 51 (0.65%) | 382 (0.44%) | 1088 (0.55%) | 2848 (0.75%) | 52 (0.55%) | 12 (0.54%) |
| Total cancer | 22 (1.46%) | 97 (1.23%) | 802 (0.91%) | 2280 (1.15%) | 5077 (1.35%) | 106 (1.12%) | 25 (1.13%) |
| Fractures | | | | | | | |
| Hip fracture | 3 (0.20%) | 11 (0.14%) | 80 (0.09%) | 140 (0.07%) | 1465 (0.39%) | 21 (0.22%) | 4 (0.18%) |
| Deaths | | | | | | | |
| Cardiovascular deaths | 6 (0.40%) | 25 (0.32%) | 258 (0.29%) | 1205 (0.61%) | 2533 (0.67%) | 48 (0.51%) | 18 (0.81%) |
| Cancer deaths | 9 (0.60%) | 36 (0.46%) | 310 (0.35%) | 966 (0.49%) | 1988 (0.53%) | 38 (0.40%) | 14 (0.63%) |
| Other known cause | 11 (0.73%) | 34 (0.43%) | 309 (0.35%) | 925 (0.47%) | 2723 (0.72%) | 49 (0.52%) | 11 (0.50%) |
| Unknown cause | 0 (0.00%) | 5 (0.06%) | 17 (0.02%) | 38 (0.02%) | 100 (0.03%) | 6 (0.06%) | 1 (0.05%) |
| Not yet adjudicated | 1 (0.07%) | 2 (0.03%) | 25 (0.03%) | 115 (0.06%) | 266 (0.07%) | 4 (0.04%) | 0 (0.00%) |
| Total death ⁵ | 47 (2.24%) | 200 (1.87%) | 1942 (1.43%) | 5965 (2.16%) | 10976 (2.48%) | 233 (2.04%) | 67 (2.15%) |

¹ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants from the CT and OS (identified from race/ethnicity collected on Form 2 at baseline. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines.

² Native Hawaiian/Other Pacific Islander MRC Super Cohort participants (n=40) are combined with Asian MRC Super Cohort participants for reporting purposes due to small numbers.

³ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial cancer.

⁴ Only one report of "other cancer" is counted per woman; however, the first of each type is adjudicated. Excludes non-melanoma skin cancer.

⁵ Includes deaths for non-Extension study participants after the main WHI study close-out. Annualized rates incorporate additional follow-up from the NDI search.

Table 3.3
Verified Outcomes (Annualized Percentages)¹ by <u>Age at Diagnosis</u> for <u>MRC Super Cohort Participants</u>²

Data as of: March 6, 2021; Events between January 1, 2000 and December 31, 2019

| | | Age at Diagnosis | | | | | | | | | | | | | | |
|-------------------------------------|-----|------------------|-----|---------|------|---------|------|---------|------|---------|------|---------|------|----------|------|----------|
| Outcomes | 5 | 0-59 | 6 | 0-64 | 65 | 5-69 | 70 | 0-74 | 75 | -79 | 80 | -84 | 8 | 85-89 | 90 | -104 |
| Number of participants ³ | 8 | 898 | 18 | 3159 | 24 | 974 | 29 | 9139 | 28 | 631 | 21 | 228 | 1 | 1812 | 4 | 840 |
| Mean follow-up (months) | (3) | 32.0 | 3 | 39.0 | 4 | 4.4 | 4 | 17.2 | 4 | 6.9 | 4. | 5.3 | | 41.1 | 3 | 38.6 |
| Cancer | | | | | | | | | | | | | | | | |
| Breast cancer | 95 | (0.40%) | 269 | (0.46%) | 427 | (0.46%) | 615 | (0.54%) | 538 | (0.48%) | 366 | (0.46%) | 141 | (0.35%) | 41 | (0.26%) |
| Invasive breast cancer | 73 | (0.31%) | 211 | (0.36%) | 315 | (0.34%) | 515 | (0.45%) | 453 | (0.40%) | 319 | (0.40%) | 132 | (0.33%) | 40 | (0.26%) |
| In situ breast cancer | 22 | (0.09%) | 62 | (0.11%) | 114 | (0.12%) | 115 | (0.10%) | 101 | (0.09%) | 60 | (0.07%) | 13 | (0.03%) | 2 | (0.01%) |
| Ovarian cancer | 5 | (0.02%) | 15 | (0.03%) | 43 | (0.05%) | 52 | (0.05%) | 52 | (0.05%) | 48 | (0.06%) | 17 | (0.04%) | 8 | (0.05%) |
| Endometrial cancer ⁴ | 3 | (0.01%) | 33 | (0.06%) | 69 | (0.07%) | 76 | (0.07%) | 52 | (0.05%) | 37 | (0.05%) | 16 | (0.04%) | 6 | (0.04%) |
| Colorectal cancer | 10 | (0.04%) | 57 | (0.10%) | 117 | (0.13%) | 159 | (0.14%) | 172 | (0.15%) | 121 | (0.15%) | 85 | (0.21%) | 47 | (0.30%) |
| Leukemia | 1 | (<0.01%) | 13 | (0.02%) | 25 | (0.03%) | 54 | (0.05%) | 46 | (0.04%) | 62 | (0.08%) | 35 | (0.09%) | 16 | (0.10%) |
| Lung cancer | 18 | (0.08%) | 67 | (0.11%) | 123 | (0.13%) | 221 | (0.19%) | 265 | (0.24%) | 205 | (0.26%) | 105 | (0.26%) | 46 | (0.30%) |
| Non-Hodgkin's lymphoma | 3 | (0.01%) | 14 | (0.02%) | 43 | (0.05%) | 80 | (0.07%) | 82 | (0.07%) | 82 | (0.10%) | 49 | (0.12%) | 18 | (0.12%) |
| Melanoma of the skin | 10 | (0.04%) | 30 | (0.05%) | 43 | (0.05%) | 68 | (0.06%) | 82 | (0.07%) | 58 | (0.07%) | 44 | (0.11%) | 13 | (0.08%) |
| Pancreas cancer | 5 | (0.02%) | 10 | (0.02%) | 35 | (0.04%) | 57 | (0.05%) | 77 | (0.07%) | 67 | (0.08%) | 52 | (0.13%) | 17 | (0.11%) |
| Total cancer | 167 | (0.70%) | 595 | (1.01%) | 1058 | (1.14%) | 1555 | (1.36%) | 1559 | (1.39%) | 1180 | (1.47%) | 599 | (1.48%) | 230 | (1.48%) |
| Cardiovascular | | | | | | | | | | | | | | | | |
| CHD ⁵ | 35 | (0.15%) | 132 | (0.22%) | 330 | (0.36%) | 520 | (0.45%) | 699 | (0.62%) | 722 | (0.90%) | 531 | (1.31%) | 364 | (2.34%) |
| Clinical MI | 25 | (0.11%) | 98 | (0.17%) | 249 | (0.27%) | 399 | (0.35%) | 498 | (0.45%) | 482 | (0.60%) | 290 | (0.72%) | 131 | (0.84%) |
| CABG/PTCA | 48 | (0.20%) | 180 | (0.31%) | 418 | (0.45%) | 582 | (0.51%) | 643 | (0.57%) | 481 | (0.60%) | 176 | (0.44%) | 36 | (0.23%) |
| Stroke | 26 | (0.11%) | 101 | (0.17%) | 214 | (0.23%) | 418 | (0.36%) | 597 | (0.53%) | 684 | (0.85%) | 464 | (1.15%) | 274 | (1.76%) |
| Total cardiovascular ⁶ | 157 | (0.66%) | 497 | (0.84%) | 1046 | (1.13%) | 1585 | (1.38%) | 1989 | (1.78%) | 1897 | (2.37%) | 1198 | (2.96%) | 758 | (4.87%) |
| Deaths | | | | | | | | | | | | | | | | |
| Total death ⁷ | 88 | (0.37%) | 372 | (0.63%) | 907 | (0.98%) | 1775 | (1.55%) | 3043 | (2.72%) | 4017 | (5.01%) | 4160 | (10.28%) | 3768 | (24.20%) |

¹Annualized percentages calculated as the number with an event in the age interval divided by the total person years of all participants with time in the interval.

² The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

³ Number of participants with any follow-up time in the age interval.

⁴ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial cancer.

⁵ "CHD" includes clinical MI, evolving Q-wave MI, and CHD death; Q-wave MI is not collected in the OS or in in the WHI Extension Study 2005-2010.

⁶ Total cardiovascular disease includes CHD, angina, CABG/PTCA, carotid artery disease, WHI CHF, UNC HF, stroke, PVD and CVD death. Angina and WHI CHF are not verified outcomes in the WHI Extension Studies 2005-2025.

⁷ Includes deaths for non-Extension study participants after the main WHI study close-out. Annualized rates incorporate additional follow-up from the NDI search.

Table 3.4

Verified Outcomes (Annualized Percentages) by <u>Age at Enrollment</u> for <u>SRC Super Cohort Participants</u>¹

Data as of: March 6, 2021; Events through September 30, 2010 and March 6, 2021

| | | | Age at | Enrollment | |
|--|---------------|--------------|--------------|---------------|---------------|
| | Total | 50-54 | 55-59 | 60-69 | 70-79 |
| Outcomes through Extension Stud | ly 2005-2010 | | | | |
| Number randomized | 117634 | 14781 | 22638 | 53171 | 27044 |
| Mean follow-up (months) | 142.7 | 154.9 | 151.9 | 142.9 | 128.1 |
| Cardiovascular ² | | | | | |
| CHD^3 | 5434 (0.39%) | 201 (0.11%) | 489 (0.17%) | 2362 (0.37%) | 2382 (0.83%) |
| CHD death ⁴ | 1891 (0.14%) | 49 (0.03%) | 104 (0.04%) | 693 (0.11%) | 1045 (0.36%) |
| Clinical MI | 4044 (0.29%) | 159 (0.08%) | 398 (0.14%) | 1834 (0.29%) | 1653 (0.57%) |
| Angina ⁵ | 3623 (0.38%) | 139 (0.11%) | 423 (0.22%) | 1749 (0.41%) | 1312 (0.63%) |
| CABG/PTCA | 6113 (0.44%) | 241 (0.13%) | 711 (0.25%) | 3161 (0.50%) | 2000 (0.69%) |
| Carotid artery disease | 1111 (0.08%) | 48 (0.03%) | 117 (0.04%) | 520 (0.08%) | 426 (0.15%) |
| Congestive heart failure, WHI ⁵ | 2797 (0.29%) | 78 (0.06%) | 201 (0.11%) | 1096 (0.26%) | 1422 (0.68%) |
| Stroke | 4255 (0.30%) | 124 (0.06%) | 319 (0.11%) | 1856 (0.29%) | 1956 (0.68%) |
| PAD | 984 (0.07%) | 24 (0.01%) | 88 (0.03%) | 460 (0.07%) | 412 (0.14%) |
| Coronary disease ⁶ | 11771 (0.84%) | 455 (0.24%) | 1244 (0.43%) | 5456 (0.86%) | 4616 (1.60%) |
| Total cardiovascular disease | 16773 (1.20%) | 626 (0.33%) | 1662 (0.58%) | 7667 (1.21%) | 6818 (2.36%) |
| Fractures ² | | | | | |
| Hip fracture | 2955 (0.21%) | 63 (0.03%) | 186 (0.06%) | 1108 (0.18%) | 1598 (0.55%) |
| Outcomes through Extension Stud | ly 2010-2025 | <u> </u> | | | |
| Number randomized | 117634 | 14781 | 22638 | 53171 | 27044 |
| Mean follow-up (months) | 203.7 | 237.0 | 230.6 | 205.2 | 159.8 |
| Cancer | | | | | |
| Breast cancer | 10866 (0.54%) | 1482 (0.51%) | 2349 (0.54%) | 5029 (0.55%) | 2006 (0.56%) |
| Invasive breast cancer | 9145 (0.46%) | 1199 (0.41%) | 1969 (0.45%) | 4252 (0.47%) | 1725 (0.48%) |
| In situ breast cancer | 1902 (0.10%) | 313 (0.11%) | 418 (0.10%) | 865 (0.10%) | 306 (0.08%) |
| Ovarian cancer | 1052 (0.05%) | 130 (0.04%) | 202 (0.05%) | 501 (0.06%) | 219 (0.06%) |
| Endometrial cancer ⁷ | 1544 (0.13%) | 183 (0.10%) | 350 (0.13%) | 711 (0.13%) | 300 (0.15%) |
| Colorectal cancer | 2518 (0.13%) | 152 (0.05%) | 351 (0.08%) | 1245 (0.14%) | 770 (0.21%) |
| Other cancer ⁸ | 14298 (0.72%) | 1427 (0.49%) | 2503 (0.58%) | 7018 (0.77%) | 3350 (0.93%) |
| Total cancer | 27532 (1.38%) | 3082 (1.06%) | 5241 (1.20%) | 13094 (1.44%) | 6115 (1.70%) |
| Deaths | | | | | |
| Cardiovascular deaths | 10652 (0.53%) | 236 (0.08%) | 678 (0.16%) | 4515 (0.50%) | 5223 (1.45%) |
| Cancer deaths | 9917 (0.50%) | 646 (0.22%) | 1403 (0.32%) | 4915 (0.54%) | 2953 (0.82%) |
| Other known cause | 12632 (0.63%) | 404 (0.14%) | 1102 (0.25%) | 5996 (0.66%) | 5130 (1.42%) |
| Unknown cause | 2426 (0.12%) | 117 (0.04%) | 268 (0.06%) | 1371 (0.15%) | 670 (0.19%) |
| Total death ⁹ | 52547 (2.22%) | 1910 (0.56%) | 4631 (0.91%) | 23944 (2.23%) | 22062 (5.01%) |

¹ The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown Race/Ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study.

² Cardiovascular diseases and hip fracture are not adjudicated for SRC Super Cohort participants during the WHI Extension Study 2010-2025. Reported statistics represent experience during the original program and the Extension Study 2005-2010.

³ "CHD" includes clinical MI, evolving Q-wave MI, and CHD death; Q-wave MI is not collected in the WHI Extension Study 2005-2010.

⁴ "CHD death" includes definite and possible CHD death.

⁵ Angina and CHF are not verified outcomes in the WHI Extension Study 2005-2010. Reported statistics represent experience during the original program.

^{6 &}quot;Coronary disease" includes clinical MI, evolving Q-wave MI, possible evolving Q-wave MI, CHD death, angina, congestive heart failure, and CABG/PTCA; Q-wave MI, angina, and congestive heart failure were not collected in the WHI Extension Study 2005-2010.

⁷ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial cancer.

⁸ Only one report of "other cancer" is counted per woman; however, the first of each type is adjudicated. Excludes non-melanoma skin cancer.

⁹ Includes deaths for non-Extension study participants after the main WHI study close-out. Annualized rates incorporate additional follow-up from the NDI search.

Table 3.5
Verified Outcomes (Annualized Percentages) by <u>Race/Ethnicity</u> for <u>SRC Super Cohort Participants</u>¹

Data as of: March 6, 2021; Events through September 30, 2010 and March 6, 2021

| | | | | Race/Ethnicity | | | |
|--|--------------------------------------|--|---------------------|---|-----------------------|-----------------------|-----------------------|
| | American Indian/ Alaska Native | Asian or Native Hawaiian/ Other Pacific Islander ² | Hispanic/ Latina | Non-Hispanic Black/African American | Non-Hispanic White | More than one Race | Other/Not Reported |
| Outcomes through Extension Study | 2005-2010 | | | | | | |
| Number randomized Mean follow-up (months) | 379 115.0 | 3558 127.6 | 787 145.7 | 142 137.6 | 111050 143.4 | 1119 146.6 | 599 106.7 |
| Cardiovascular ³ | | | | | | | |
| CHD^4 | 21 (0.58%) | 89 (0.24%) | 27 (0.28%) | 3 (0.18%) | 5224 (0.39%) | 42 (0.31%) | 28 (0.53%) |
| CHD death ⁵ | 11 (0.30%) | 30 (0.08%) | 4 (0.04%) | 1 (0.06%) | 1812 (0.14%) | 13 (0.10%) | 20 (0.38%) |
| Clinical MI | 13 (0.36%) | 68 (0.18%) | 23 (0.24%) | 2 (0.12%) | 3889 (0.29%) | 31 (0.23%) | 18 (0.34%) |
| Angina ⁶ | 19 (0.70%) | 54 (0.20%) | 28 (0.43%) | 2 (0.17%) | 3470 (0.39%) | 35 (0.38%) | 15 (0.37%) |
| CABG/PTCA | 19 (0.52%) | 80 (0.21%) | 39 (0.41%) | 2 (0.12%) | 5906 (0.44%) | 47 (0.34%) | 20 (0.38%) |
| Carotid artery disease | 6 (0.17%) | 10 (0.03%) | 11 (0.12%) | 4 (0.25%) | 1065 (0.08%) | 8 (0.06%) | 7 (0.13%) |
| Congestive heart failure, WHI ⁶ | 19 (0.70%) | 33 (0.12%) | 12 (0.18%) | 2 (0.17%) | 2684 (0.30%) | 23 (0.25%) | 24 (0.59%) |
| Stroke | 19 (0.52%) | 98 (0.26%) | 19 (0.20%) | 6 (0.37%) | 4059 (0.31%) | 29 (0.21%) | 25 (0.47%) |
| PAD | 5 (0.14%) | 9 (0.02%) | 3 (0.03%) | 3 (0.18%) | 949 (0.07%) | 13 (0.10%) | 2 (0.04%) |
| Coronary disease ⁷ | 52 (1.43%) | 177 (0.47%) | 71 (0.74%) | 7 (0.43%) | 11305 (0.85%) | 103 (0.75%) | 56 (1.05%) |
| Total cardiovascular disease | 68 (1.87%) | 288 (0.76%) | 99 (1.04%) | 20 (1.23%) | 16059 (1.21%) | 154 (1.13%) | 85 (1.60%) |
| Fractures ³ | | | | | | | |
| Hip fracture | 4 (0.11%) | 28 (0.07%) | 15 (0.16%) | 0 (0.00%) | 2868 (0.22%) | 26 (0.19%) | 14 (0.26%) |

¹ The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines.

² Native Hawaiian/Other Pacific Islander SRC Super Cohort participants (n=79) are combined with Asian SRC Super Cohort participants for reporting purposes due to small numbers.

³ Cardiovascular diseases and hip fracture are not adjudicated for SRC Super Cohort participants during the WHI Extension Study 2010-2025. Reported statistics represent experience during the original program and the Extension Study 2005-2010.

⁴ "CHD" includes clinical MI, evolving Q-wave MI, and CHD death; Q-wave MI is not collected in the WHI Extension Study 2005-2010.

⁵ "CHD death" includes definite and possible CHD death.

⁶ Angina and CHF are not verified outcomes in the WHI Extension Study 2005-2010. Reported statistics represent experience during the original program.

^{7 &}quot;Coronary disease" includes clinical MI, evolving Q-wave MI, possible evolving Q-wave MI, CHD death, angina, congestive heart failure, and CABG/PTCA; Q-wave MI, angina and congestive heart failure were not collected in the WHI Extension Study 2005-2010.

Table 3.5 (continued)

Verified Outcomes (Annualized Percentages) by Race/Ethnicity for SRC Super Cohort Participants¹

Data as of: March 6, 2021; Events through September 30, 2010 and March 6, 2021

Race/Ethnicity **Asian or Native** American Hawaiian/ **Non-Hispanic** Indian/Alaska Other Pacific Hispanic/ Black/African Non-Hispanic More than Other/Not Islander² Native Latina American White one Race Reported **Outcomes through Extension Study 2010-2025 Number randomized** 379 3558 787 142 111050 1119 599 Mean follow-up (months) 150.9 174.2 207.9 205.1 208.8 188.0 136.1 Cancer 20 (0.42%) 241 (0.47%) 68 (0.50%) 10 (0.45%) 10410 (0.55%) 82 (0.42%) 35 (0.52%) **Breast Cancer** Invasive breast cancer 17 (0.36%) 197 (0.38%) 54 (0.40%) 8 (0.36%) 8768 (0.46%) 73 (0.37%) 28 (0.41%) In situ breast cancer 4 (0.08%) 47 (0.09%) 15 (0.11%) 2 (0.09%) 1815 (0.10%) 11 (0.06%) 8 (0.12%) Ovarian cancer 3 (0.06%) 14 (0.03%) 3 (0.02%) 1 (0.04%) 1016 (0.05%) 6 (0.03%) 9 (0.13%) Endometrial cancer³ 1 (0.04%) 24 (0.07%) 12 (0.14%) 2 (0.19%) 1492 (0.13%) 10 (0.10%) 3 (0.07%) Colorectal cancer 44 (0.09%) 3 (0.13%) 15 (0.08%) 9 (0.13%) 8 (0.17%) 18 (0.13%) 2421 (0.13%) Other cancer⁴ 66 (0.48%) 14 (0.63%) 13790 (0.73%) 103 (0.53%) 63 (0.93%) 31 (0.65%) 231 (0.45%) 59 (1.24%) 510 (0.99%) 145 (1.06%) 25 (1.12%) 26478 (1.40%) 204 (1.05%) 111 (1.63%) **Total cancer** Deaths Cardiovascular deaths 31 (0.65%) 180 (0.35%) 47 (0.34%) 10 (0.45%) 10250 (0.54%) 77 (0.40%) 57 (0.84%) Cancer deaths 26 (0.55%) 177 (0.34%) 27 (0.20%) 5 (0.22%) 9565 (0.50%) 60 (0.31%) 57 (0.84%) 169 (0.33%) 108 (0.55%) 49 (0.72%) Other known cause 50 (1.05%) 80 (0.59%) 5 (0.22%) 12171 (0.64%) Unknown cause 5 (0.10%) 32 (0.06%) 12 (0.09%) 3 (0.13%) 2349 (0.12%) 23 (0.12%) 2 (0.03%) Total death⁵ 187 (2.72%) 1172 (1.59%) 296 (1.78%) 51 (1.75%) 50100 (2.25%) 428 (1.83%) 313 (2.97%)

¹ The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines.

² Native Hawaiian/Other Pacific Islander SRC Super Cohort participants (n=79) are combined with Asian SRC Super Cohort participants for reporting purposes due to small numbers.

³ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial cancer.

⁴ Only one report of "other cancer" is counted per woman; however, the first of each type is adjudicated. Excludes non-melanoma skin cancer.

⁵ Includes deaths for non-Extension study participants after the main WHI study close-out. Annualized rates incorporate additional follow-up from the NDI search.

Table 3.6
Verified Primary and Other Cancers (Annualized Percentages): MRC and SRC Super Cohort Participants

| | MRC Su | iper Cohort ¹ | SRC Su | per Cohort ² | |
|---|--------|--------------------------|--------|-------------------------|--|
| Number of participants | 4 | 4174 | 117634 | | |
| Mean follow-up (months) | | 185.8 | 2 | 03.7 | |
| Overall cancer | 8394 | (1.23%) | 27504 | (1.38%) | |
| Primary cancer | 007. | (====,=) | 2.00. | (====,=) | |
| Breast cancer | 3042 | (0.44%) | 10866 | (0.54%) | |
| Invasive breast cancer | 2505 | (0.37%) | 9145 | (0.46%) | |
| In situ breast cancer | 595 | (0.09%) | 1902 | (0.10%) | |
| Ovarian cancer | 289 | (0.04%) | 1052 | (0.05%) | |
| Endometrial cancer ³ | 342 | (0.09%) | 1544 | (0.13%) | |
| Colorectal cancer | 983 | (0.14%) | 2518 | (0.13%) | |
| Other cancer | 7.00 | (012 170) | | (0120,0) | |
| Accessory sinus | 3 | (<0.01%) | 13 | (<0.01%) | |
| Adrenal gland | 5 | (<0.01%) | 12 | (<0.01%) | |
| Anus | 32 | (<0.01%) | 105 | (0.01%) | |
| Appendix | 13 | (<0.01%) | 36 | (<0.01%) | |
| Base of tongue | 9 | (<0.01%) | 26 | (<0.01%) | |
| Biliary tract, parts of (other/unspecified) | 62 | (0.01%) | 146 | (0.01%) | |
| Bladder | 270 | (0.04%) | 840 | (0.01%) | |
| Bladdel | 270 | (0.0470) | 0+0 | (0.0470) | |
| Bones/joints/articular cartilage (limbs) | 2 | (<0.01%) | 12 | (<0.01%) | |
| Bones/joints/articular cartilage (other) | 9 | (<0.01%) | 21 | (<0.01%) | |
| Brain | 72 | (0.01%) | 323 | (0.02%) | |
| Cervix | 45 | (0.01%) | 89 | (<0.01%) | |
| Central Nervous System (excludes brain) | 1 | (<0.01%) | 4 | (<0.01%) | |
| Connective/subcutaneous/soft tissues | 46 | (0.01%) | 162 | (0.01%) | |
| Endocrine glands, related structures | 0 | (0.00%) | 5 | (<0.01%) | |
| _ | 40 | (0.010/) | 146 | (0.010/) | |
| Esophagus | 48 | (0.01%) | 146 | (0.01%) | |
| Eye and adnexa | 24 | (<0.01%) | 59 | (<0.01%) | |
| Floor of Mouth | 7 | (<0.01%) | 11 | (<0.01%) | |
| Gallbladder | 47 | (0.01%) | 103 | (0.01%) | |
| Genital organs | 84 | (0.01%) | 323 | (0.02%) | |
| Gum | 8 | (<0.01%) | 42 | (<0.01%) | |
| Heart | 5 | (<0.01%) | 35 | (<0.01%) | |
| Kidney | 212 | (0.03%) | 582 | (0.03%) | |
| Larynx | 21 | (<0.01%) | 34 | (<0.01%) | |
| Leukemia | 279 | (0.04%) | 940 | (0.05%) | |
| Liver | 106 | (0.02%) | 253 | (0.01%) | |
| Lung | 1205 | (0.18%) | 3205 | (0.16%) | |
| Lymph nodes | 1 | (<0.01%) | 2 | (<0.01%) | |
| Lymphoma, Hodgkins | 24 | (<0.01%) | 58 | (<0.01%) | |
| Lymphoma, non-Hodgkins | 404 | (0.06%) | 1535 | (0.01%) | |
| Melanoma of the skin | 395 | (0.06%) | 2350 | (0.12%) | |
| Weldhoma of the skin | 373 | (0.0070) | 2330 | (0.1270) | |
| Meninges | 2 | (<0.01%) | 6 | (<0.01%) | |
| Multiple myeloma | 216 | (0.03%) | 464 | (0.02%) | |
| Mycosis fungoides | 8 | (<0.01%) | 21 | (<0.01%) | |
| Nasal cavity mid ear | 2 | (<0.01%) | 19 | (<0.01%) | |
| Oral (mouth) | 9 | (<0.01%) | 36 | (<0.01%) | |
| Other digestive cancer | 14 | (<0.01%) | 50 | (<0.01%) | |
| Other lip | 7 | (<0.01%) | 9 | (<0.01%) | |
| Palate Palate | 7 | (<0.01%) | 27 | (<0.01%) | |

¹ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

² The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study.

³ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial and uterine cancer.

Table 3.6 (continued)

Verified Primary and Other Cancers (Annualized Percentages): MRC and SRC Super Cohort Participants

| | MRC Su | per Cohort1 | SRC Super Cohort ² | | |
|--|--------|-------------|-------------------------------|----------|--|
| Number of participants | 4 | 4174 | 117634 | | |
| Mean follow-up (months) | 1 | 185.8 | 203.7 | | |
| Pancreas | 360 | (0.05%) | 1020 | (0.05%) | |
| Parotid gland (Stensen's duct) | 15 | (<0.01%) | 52 | (<0.01%) | |
| Peripheral nerves and autonomic nervous | 0 | (0.00%) | 2 | (<0.01%) | |
| Peritoneum | 54 | (0.01%) | 179 | (0.01%) | |
| Pharynx | 12 | (<0.01%) | 19 | (<0.01%) | |
| Pyriform sinus | 0 | (0.00%) | 2 | (<0.01%) | |
| Renal pelvis | 38 | (0.01%) | 99 | (<0.01%) | |
| Respiratory system, intrathoracic, other | 0 | (0.00%) | 3 | (<0.01%) | |
| Salivary glands, major (other/unspecified) | 4 | (<0.01%) | 15 | (<0.01%) | |
| Small intestine | 42 | (0.01%) | 129 | (0.01%) | |
| Stomach | 107 | (0.02%) | 225 | (0.01%) | |
| Thymus | 3 | (<0.01%) | 11 | (<0.01%) | |
| Thyroid | 110 | (0.02%) | 409 | (0.02%) | |
| Tongue, part of (other/unspecified) | 15 | (<0.01%) | 77 | (<0.01%) | |
| Tonsil | 3 | (<0.01%) | 20 | (<0.01%) | |
| Trachea | 1 | (<0.01%) | 0 | (0.00%) | |
| Ureter | 20 | (<0.01%) | 70 | (<0.01%) | |
| Urinary organs (other/unspecified) | 13 | (<0.01%) | 27 | (<0.01%) | |
| Uterus, not otherwise specified ³ | 35 | (0.01%) | 109 | (0.01%) | |
| Other/unknown site of cancer | 143 | (0.02%) | 441 | (0.02%) | |
| Other/unknown cancers reported on death form | 102 | (0.01%) | 403 | (0.02%) | |

¹ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

² The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown race/ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study.

³ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial and uterine cancer.

Table 3.7
Verified Outcomes (Annualized Percentages)¹ by <u>Age at Diagnosis</u> for <u>CT and OS Participants</u>

Data as of: March 6, 2021; Events between January 1, 2000 and December 31, 2019 or January 1, 2000 and September 30, 2010

| | | | | Age at D | Diagnosis | | | |
|--|---|--|---|---|---|---|---|--|
| | 50-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80-84 | 85-89 | 90-104 |
| Cancer and Death Outcomes | s between 1/1/200 | 0 and 12/31/2019 | | | | | | |
| Number of participants ² | 28496 | 62321 | 91040 | 113164 | 117144 | 89762 | 51545 | 21690 |
| Mean follow-up (months) | 30.9 | 39.5 | 45.3 | 48.2 | 47.6 | 46.0 | 41.5 | 38.6 |
| Breast cancer Invasive breast cancer In situ breast cancer Ovarian cancer Endometrial cancer ³ Colorectal cancer Leukemia Lung cancer Non-Hodgkin's lymphoma Melanoma of the skin Pancreas cancer | 359 (0.49%) 281 (0.38%) 80 (0.11%) 26 (0.04%) 32 (0.08%) 35 (0.05%) 6 (0.01%) 33 (0.04%) 18 (0.02%) 49 (0.07%) 10 (0.01%) | 1072 (0.52%) 862 (0.42%) 222 (0.11%) 78 (0.04%) 144 (0.12%) 155 (0.08%) 48 (0.02%) 177 (0.09%) 75 (0.04%) 164 (0.08%) 44 (0.02%) | 1908 (0.56%) 1514 (0.44%) 412 (0.12%) 183 (0.05%) 294 (0.14%) 337 (0.10%) 136 (0.04%) 401 (0.12%) 199 (0.06%) 320 (0.09%) 103 (0.03%) | 2592 (0.57%) 2151 (0.47%) 489 (0.11%) 249 (0.05%) 369 (0.14%) 545 (0.12%) 201 (0.04%) 777 (0.17%) 358 (0.08%) 514 (0.11%) 193 (0.04%) | 2632 (0.57%) 2243 (0.48%) 457 (0.10%) 235 (0.05%) 348 (0.13%) 644 (0.14%) 251 (0.05%) 985 (0.21%) 413 (0.09%) 625 (0.13%) 291 (0.06%) | 1715 (0.50%) 1495 (0.43%) 271 (0.08%) 185 (0.05%) 229 (0.11%) 588 (0.17%) 231 (0.07%) 830 (0.24%) 358 (0.10%) 428 (0.12%) 310 (0.09%) | 716 (0.40%) 668 (0.37%) 66 (0.04%) 117 (0.07%) 87 (0.08%) 376 (0.21%) 165 (0.09%) 446 (0.25%) 237 (0.13%) 249 (0.14%) 212 (0.12%) | 202 (0.29%) 203 (0.29%) 10 (0.01%) 33 (0.05%) 28 (0.07%) 169 (0.24%) 80 (0.11%) 187 (0.27%) 86 (0.12%) 79 (0.11%) 88 (0.13%) |
| Total cancer | 644 (0.88%) | 2185 (1.06%) | 4250 (1.24%) | 6381 (1.41%) | 6961 (1.50%) | 5317 (1.55%) | 2779 (1.56%) | 1022 (1.46%) |
| Total death ⁴ | 221 (0.30%) | 999 (0.49%) | 2450 (0.71%) | 5424 (1.19%) | 10123 (2.18%) | 14787 (4.30%) | 17019 (9.55%) | 15806 (22.65%) |
| Cardiovascular Outcomes be | etween 1/1/2000 a | nd 9/30/2010 | | | | | | |
| Number of participants ² | 22435 | 50703 | 75664 | 80683 | 65949 | 40705 | 15580 | 2664 |
| Mean follow-up (months) | 31.1 | 41.6 | 41.9 | 40.6 | 40.8 | 38.3 | 31.0 | 17.6 |
| CHD ⁵ Clinical MI CABG/PTCA Stroke | 35 (0.06%) 25 (0.04%) 48 (0.08%) 26 (0.04%) | 131 (0.07%) 97 (0.06%) 178 (0.10%) 100 (0.06%) | 307 (0.12%) 231 (0.09%) 395 (0.15%) 191 (0.07%) | 396 (0.14%) 298 (0.11%) 479 (0.18%) 303 (0.11%) | 458 (0.20%) 326 (0.15%) 465 (0.21%) 364 (0.16%) | 379 (0.29%) 248 (0.19%) 288 (0.22%) 315 (0.24%) | 166 (0.41%) 95 (0.24%) 58 (0.14%) 124 (0.31%) | 28 (0.72%) 11 (0.28%) 0 (0.00%) 22 (0.56%) |
| Total cardiovascular ⁶ | 157 (0.27%) | 493 (0.28%) | 980 (0.37%) | 1252 (0.46%) | 1342 (0.60%) | 999 (0.77%) | 344 (0.86%) | 58 (1.48%) |

¹ Annualized percentages calculated as the number with an event in the age interval divided by the total person years of all participants with time in the interval.

² Number of participants with any follow-up time in the age interval.

³ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial cancer.

⁴ Includes deaths for non-Extension study participants after the main WHI study close-out. Annualized rates incorporate additional follow-up from the NDI search.

^{5 &}quot;CHD" includes clinical MI, evolving Q-wave MI, and CHD death; Q-wave MI is not collected in the OS or in the WHI Extension Study 2005-2010.

⁶ Total cardiovascular disease includes CHD, angina, CABG/PTCA, carotid artery disease, CHF, stroke, PAD and CVD death. Angina and CHF are not verified outcomes in the WHI Extension Study 2005-2010.

Table 3.8
Verified Primary and Other Cancers (Annualized Percentages): CT and OS Participants

| | CT | | OS | | Total | |
|---|-------------|----------------------|-------------|----------------------|-------------|----------------------|
| Number of participants | 6 | 8132 | 9 | 3676 | 10 | 51808 |
| Mean follow-up (months) | | 207.7 | | 92.3 | | 98.8 |
| Overall cancer | 15387 | (1.30%) | 20511 | (1.37%) | 35898 | (1.34%) |
| Primary cancer | | (212 0 / 10) | | (===,,=) | | (=== =,=) |
| Breast cancer | 5806 | (0.49%) | 8102 | (0.54%) | 13908 | (0.52%) |
| Invasive breast cancer | 4822 | (0.41%) | 6828 | (0.45%) | 11650 | (0.43%) |
| In situ breast cancer | 1095 | (0.09%) | 1402 | (0.09%) | 2497 | (0.09%) |
| Ovarian cancer | 545 | (0.05%) | 796 | (0.05%) | 1341 | (0.05%) |
| Endometrial cancer ¹ | 798 | (0.11%) | 1088 | (0.12%) | 1886 | (0.12%) |
| Colorectal cancer | 1602 | (0.14%) | 1899 | (0.13%) | 3501 | (0.13%) |
| Other cancer | | | | | | |
| Accessory sinus | 6 | (<0.01%) | | (<0.01%) | 16 | (<0.01%) |
| Adrenal gland | 7 | (<0.01%) | | (<0.01%) | 17 | (<0.01%) |
| Anus | 59 | (0.01%) | 78 | (0.01%) | 137 | (0.01%) |
| Appendix | 25 | (<0.01%) | | (<0.01%) | 49 | (<0.01%) |
| Base of tongue | 17 | (<0.01%) | | (<0.01%) | 35 | (<0.01%) |
| Biliary tract, parts of (other/unspecified) | 102 | (0.01%) | 106 | (0.01%) | 208 | (0.01%) |
| Bladder | 514 | (0.04%) | 596 | (0.04%) | 1110 | (0.04%) |
| Bones/joints/articular cartilage (limbs) | 7 | (<0.01%) | | (<0.01%) | 14 | (<0.01%) |
| Bones/joints/articular cartilage (other) | 15 | (<0.01%) | | (<0.01%) | 30 | (<0.01%) |
| Brain | 174 | (0.01%) | 221 | (0.01%) | 395 | (0.01%) |
| Cervix | 65 | (0.01%) | | (<0.01%) | 134 | (<0.01%) |
| Central Nervous System (excludes brain) | 1 | (<0.01%) | | (<0.01%) | 5 | (<0.01%) |
| | | | | | | |
| Connective/subcutaneous/soft tissues | 97 | (0.01%) | 111 | (0.01%) | 208 | (0.01%) |
| Endocrine glands, related structures | 1 | (<0.01%) | | (<0.01%) | 5 | (<0.01%) |
| Esophagus | 88 | (0.01%) | 106 | (0.01%) | 194 | (0.01%) |
| Eye and adnexa | 48 | (<0.01%) | | (<0.01%) | 83 | (<0.01%) |
| Floor of mouth | 10 | (<0.01%) | | (<0.01%) | 18 | (<0.01%) |
| Gallbladder | 85 | (0.01%) | 65 | (<0.01%) | 150 | (0.01%) |
| Genital organs | 168 | (0.01%) | 239 | (0.02%) | 407 | (0.02%) |
| Gum | 22 | (<0.01%) | | (<0.01%) | 50 | (<0.01%) |
| Heart | 12 | (<0.01%) | | (<0.01%) | 40 | (<0.01%) |
| Kidney | 377 | (0.03%) | 417 | (0.03%) | 794 | (0.03%) |
| Larynx | 28 | (<0.01%) | 27 | (<0.01%) | 55 | (<0.01%) |
| Leukemia | 534 | (0.05%) | 685 | (0.05%) | 1219 | (0.05%) |
| T : | 150 | (0.010/) | 207 | (0.010/) | 250 | (0.010/) |
| Liver Lung | 152 1903 | (0.01%) (0.16%) | 207 2507 | (0.01%) (0.17%) | 359 4410 | (0.01%) (0.16%) |
| Lymph nodes | 2 | (<0.10%) | | (<0.17%) | 3 | (<0.10%) |
| Lymphoma, Hodgkins | 31 | (<0.01%) | | (<0.01%) | 82 | (<0.01%) |
| Lymphoma, non-Hodgkins | 807 | (0.07%) | 1132 | (0.01%) | 1939 | (0.07%) |
| Melanoma of the skin | 1175 | (0.07%) | 1570 | (0.10%) | 2745 | (0.07%) |
| | | (0.010() | _ | (0.042() | | (0.042() |
| Meninges | 3 | (<0.01%) | | (<0.01%) | 8 | (<0.01%) |
| Multiple myeloma | 302 | (0.03%) | 378 | (0.03%) | 680 | (0.03%) |
| Mycosis fungoides | 10 | (<0.01%) | | (<0.01%) | 29 | (<0.01%) |
| Nasal cavity mid ear Oral (mouth) | 8 24 | (<0.01%) (<0.01%) | 13 21 | (<0.01%) (<0.01%) | 21 45 | (<0.01%) (<0.01%) |
| Other digestive cancer | 31 | (<0.01%) (<0.01%) | | (<0.01%) | 64 | (<0.01%) (<0.01%) |

¹ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial and uterine cancer.

Table 3.8 (continued) Verified Primary and Other Cancers (Annualized Percentages): MRC and SRC Super Cohort Participants

| | CT | OS | Total |
|--|-------------|-------------|--------------|
| Number of participants | 68132 | 93676 | 161808 |
| Mean follow-up (months) | 207.7 | 192.3 | 198.8 |
| Other lip | 7 (<0.01%) | 9 (<0.01%) | 16 (<0.01%) |
| Palate | 13 (<0.01%) | 21 (<0.01%) | 34 (<0.01%) |
| Pancreas | 612 (0.05%) | 768 (0.05%) | 1380 (0.05%) |
| Parotid gland (Stensen's duct) | 27 (<0.01%) | 40 (<0.01%) | 67 (<0.01%) |
| Peripheral nerves and autonomic nervous | 1 (<0.01%) | 1 (<0.01%) | 2 (<0.01%) |
| Peritoneum | 95 (0.01%) | 138 (0.01%) | 233 (0.01%) |
| Pharynx | 14 (<0.01%) | 17 (<0.01%) | 31 (<0.01%) |
| Pyriform sinus | 0 (0.00%) | 2 (<0.01%) | 2 (<0.01%) |
| Renal pelvis | 64 (0.01%) | 73 (<0.01%) | 137 (0.01%) |
| Respiratory system, intrathoracic, other | 1 (<0.01%) | 2 (<0.01%) | 3 (<0.01%) |
| Salivary glands, major (other/unspecified) | 6 (<0.01%) | 13 (<0.01%) | 19 (<0.01%) |
| Small intestine | 60 (0.01%) | 111 (0.01%) | 171 (0.01%) |
| Stomach | 138 (0.01%) | 194 (0.01%) | 332 (0.01%) |
| Thymus | 7 (<0.01%) | 7 (<0.01%) | 14 (<0.01%) |
| Thyroid | 220 (0.02%) | 299 (0.02%) | 519 (0.02%) |
| Tongue, part of (other/unspecified) | 43 (<0.01%) | 49 (<0.01%) | 92 (<0.01%) |
| Tonsil | 10 (<0.01%) | 13 (<0.01%) | 23 (<0.01%) |
| Trachea | 0 (0.00%) | 1 (<0.01%) | 1 (<0.01%) |
| Ureter | 45 (<0.01%) | 45 (<0.01%) | 90 (<0.01%) |
| Urinary organs (other/unspecified) | 18 (<0.01%) | 22 (<0.01%) | 40 (<0.01%) |
| Uterus, not otherwise specified ¹ | 61 (0.01%) | 83 (0.01%) | 144 (0.01%) |
| Other/unknown site of cancer | 259 (0.02%) | 325 (0.02%) | 584 (0.02%) |
| Other/unknown cancers reported on death form | 169 (0.01%) | 336 (0.02%) | 505 (0.02%) |

¹ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial and uterine cancer.

Table 3.9

Verified Primary and Other Cancers (Annualized Percentages) by Race/Ethnicity for CT and OS Participants

Data as of: March 6, 2021; Events through March 6, 2021

Race/Ethnicity **Asian or Native** American Hawaiian/ Non-Hispanic Indian/ **Other Pacific** Hispanic/ Black/African Non-Hispanic More than Other/ Islander¹ Latina White one Race **Not Reported** Alaska Native American **Number of participants** 487 4084 7312 14167 133328 1669 761 154.5 Mean follow-up (months) 174.9 166.5 169.3 204.8 208.2 142.1 Overall cancer 81 (1.29%) (1.02%)945 (0.93%)2299 (1.15%)31521 309 (1.07%)136 (1.51%) 607 (1.39%)Primary cancer Breast cancer 26 (0.41%)276 (0.46%)390 (0.38%)927 (0.46%)12125 (0.53%)121 (0.42%)43 (0.48%) (0.37%)(0.38%)(0.37%)36 (0.40%) Invasive breast cancer 23 224 318 (0.31%)746 10197 (0.45%)106 (0.37%)In situ breast cancer (0.06%)56 (0.09%)79 (0.08%)205 (0.10%)2128 (0.09%)17 (0.06%)8 (0.09%) 4 Ovarian cancer 5 (0.08%)16 (0.03%)40 (0.04%)76 (0.04%)1184 (0.05%)10 (0.03%)10 (0.11%) Endometrial cancer² (0.09%)26 (0.07%)(0.08%)90 (0.10%)1708 (0.12%)(0.08%)4 (0.08%) 3 44 11 299 Colorectal cancer 9 (0.14%) 57 (0.10%)104 (0.10%)(0.15%)2987 (0.13%)32 (0.11%)13 (0.14%) Other cancer 0 (0.00%) Accessory sinus 0 (0.00%)(0.00%)(0.00%)1 (<0.01%) 15 (<0.01%) (0.00%)Adrenal gland 0 (0.00%)(0.00%)1 (<0.01%) 2 (<0.01%) 14 (<0.01%) (0.00%)0 (0.00%) 0 (0.01%)0 (0.00%) 0 (0.00%)2 (< 0.01%)6 (0.01%) 10 (0.01%)119 (0.00%)Anus 0 (0.00%)(0.00%)3 (<0.01%) 4 (<0.01%) 41 (<0.01%) (0.00%)1 (0.01%) Appendix Base of Tongue (0.00%)(0.00%)1 (0.01%) (0.00%)0 2 (<0.01%) 32 (<0.01%) (0.00%)Biliary tract, parts of (other/unspecified) 1 (0.02%) 2 (<0.01%) (0.01%)14 (0.01%)174 (0.01%)(0.01%)1 (0.01%) Bladder 1 (0.02%) 11 (0.02%) (0.02%)(0.03%)1004 (0.04%)(0.04%)1 (0.01%) 18 Bones/joints/articular cartilage (limbs) 1 (<0.01%) (0.00%)(0.00%)12 (<0.01%) (0.00%)0 (0.00%) 1 (0.02%) Bones/joints/articular cartilage (other) 0 (0.00%)(0.00%)1 (<0.01%) 1 (<0.01%) 26 (<0.01%) 1 (<0.01%) 1 (0.01%) Brain 1 (0.02%) (0.01%)(0.01%)(0.01%)367 (0.02%) (0.00%)1 (0.01%) 5 14 105 (<0.01%) 0 (0.00%)Cervix 0 (0.00%)2 (<0.01%) (0.01%)20 (0.01%)1 (<0.01%) Central Nervous System (excludes brain) (0.00%)(0.00%)(0.00%)(0.00%)(0.00%)0 (0.00%) 5 (<0.01%) Connective/subcutaneous/soft tissues 0 (0.00%)(0.01%)5 (<0.01%) 9 (<0.01%) (0.01%)(0.01%)1 (0.01%) 186 Endocrine glands, related structures 0 (0.00%)(0.00%)0 (0.00%)(0.00%)5 (<0.01%) (0.00%)0(0.00%)Esophagus 1 (<0.01%) 3 (<0.01%) 9 (<0.01%) 176 (0.01%) 1 (0.01%) 1 (0.02%) (0.01%)Eye and adnexa (0.00%)(0.00%)77 (<0.01%) 0 (0.00%) $0 \quad (0.00\%)$ 4 (<0.01%) (0.01%)Floor of mouth 0 (0.00%)1 (<0.01%) 1 (<0.01%) 2 (<0.01%) 13 (<0.01%) 0 (0.00%)1 (0.01%) Gallbladder 1 (<0.01%) 8 (0.01%) (0.01%)129 (0.01%)0 (0.00%) 0 (0.00%)11 1 (<0.01%)

1 Native Hawaiian/Other Pacific Islander CT and OS participants (n=119) are combined with Asian CT and OS participants for reporting purposes due to small numbers.

² Only women without a baseline hysterectomy are used to compute the annual rates of endometrial and uterine cancer.

Table 3.9 (continued)

Verified Primary and Other Cancers (Annualized Percentages) by Race/Ethnicity: CT and OS Participants

Data as of: March 6, 2021; Events through March 6, 2021

| | | | | Race/Ethnicity | | | |
|---|---------------|-----------------------|------------|----------------|--------------|------------|--------------|
| | | Asian or Native | | | | | |
| | American | Hawaiian/ | | Non-Hispanic | | | |
| | Indian/Alaska | Other Pacific | Hispanic | Black/African | Non-Hispanic | More than | Other/ |
| | Native | Islander ¹ | /Latina | American | White | one Race | Not Reported |
| Number of participants | 487 | 4084 | 7312 | 14167 | 133328 | 1669 | 761 |
| Mean follow-up (months) | 154.5 | 174.9 | 166.5 | 169.3 | 204.8 | 208.2 | 142.1 |
| Genital organs | 1 (0.02%) | 6 (0.01%) | 16 (0.02%) | 17 (0.01%) | 363 (0.02%) | 3 (0.01%) | 1 (0.01%) |
| Gum | 0 (0.00%) | 1 (<0.01%) | 2 (<0.01%) | 2 (<0.01%) | 45 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Heart | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 40 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Kidney | 7 (0.11%) | 14 (0.02%) | 23 (0.02%) | 60 (0.03%) | 678 (0.03%) | 8 (0.03%) | 4 (0.04%) |
| Larynx | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 6 (<0.01%) | 49 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Leukemia | 2 (0.03%) | 16 (0.03%) | 25 (0.02%) | 62 (0.03%) | 1095 (0.05%) | 13 (0.04%) | 6 (0.07%) |
| Liver | 3 (0.05%) | 15 (0.03%) | 21 (0.02%) | 29 (0.01%) | 285 (0.01%) | 3 (0.01%) | 3 (0.03%) |
| Lung | 12 (0.19%) | 62 (0.10%) | 85 (0.08%) | 297 (0.15%) | 3897 (0.17%) | 36 (0.12%) | 21 (0.23%) |
| Lymph nodes | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 3 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Lymphoma, Hodgkins | 0 (0.00%) | 1 (<0.01%) | 8 (0.01%) | 4 (<0.01%) | 67 (<0.01%) | 1 (<0.01%) | 1 (0.01%) |
| Lymphoma, non-Hodgkins | 1 (0.02%) | 38 (0.06%) | 64 (0.06%) | 71 (0.04%) | 1750 (0.08%) | 7 (0.02%) | 8 (0.09%) |
| Melanoma of the skin | 2 (0.03%) | 7 (0.01%) | 23 (0.02%) | 9 (<0.01%) | 2682 (0.12%) | 18 (0.06%) | 4 (0.04%) |
| Meninges | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 8 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Multiple myeloma | 2 (0.03%) | 3 (0.01%) | 26 (0.03%) | 83 (0.04%) | 555 (0.02%) | 8 (0.03%) | 3 (0.03%) |
| Mycosis fungoides | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 4 (<0.01%) | 25 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Nasal cavity mid ear | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 21 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Oral (mouth) | 0 (0.00%) | 0 (0.00%) | 2 (<0.01%) | 3 (<0.01%) | 40 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Other digestive cancer | 0 (0.00%) | 0 (0.00%) | 1 (<0.01%) | 4 (<0.01%) | 58 (<0.01%) | 0 (0.00%) | 1 (0.01%) |
| Other lip | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (<0.01%) | 15 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Palate | 0 (0.00%) | 1 (<0.01%) | 0 (0.00%) | 0 (0.00%) | 33 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Pancreas | 1 (0.02%) | 39 (0.07%) | 36 (0.04%) | 116 (0.06%) | 1166 (0.05%) | 16 (0.06%) | 6 (0.07%) |
| Parotid gland (Stensen's duct) | 0 (0.00%) | 2 (<0.01%) | 1 (<0.01%) | 8 (<0.01%) | 56 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| , | 0 (0.00%) | 2 (<0.01%) | 1 (<0.01%) | 6 (<0.01%) | 30 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Peripheral nerves and autonomic nervous | 0 (0 000() | 0 (0.000/) | 0 (0.000/) | 0 (0.000/) | 2 (-0.010/) | 0 (0.000/) | 0 (0 000() |
| system | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 2 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Peritoneum | 1 (0.02%) | 2 (<0.01%) | 8 (0.01%) | 14 (0.01%) | 205 (0.01%) | 2 (0.01%) | 1 (0.01%) |

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¹ Native Hawaiian/Other Pacific Islander CT and OS participants (n=119) are combined with Asian CT and OS participants for reporting purposes due to small numbers.

Table 3.9 (continued)
Verified Primary and Other Cancers (Annualized Percentages) by <u>Race/Ethnicity</u>: <u>CT and OS Participants</u>

| | | | | Race/Ethnicity | | | |
|--|--------------------------------------|--|---------------------|---|-----------------------|-----------------------|-----------------------|
| | American Indian/ Alaska Native | Asian or Native Hawaiian/ Other Pacific Islander ¹ | Hispanic/ Latina | Non-Hispanic Black/African American | Non-Hispanic White | More than one Race | Other/Not Reported |
| Number of participants | 487 | 4084 | 7312 | 14167 | 133328 | 1669 | 761 |
| Mean follow-up (months) | 154.5 | 174.9 | 166.5 | 169.3 | 204.8 | 208.2 | 142.1 |
| Pharynx | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 3 (<0.01%) | 28 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Pyriform sinus | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 2 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Renal Pelvis | 0 (0.00%) | 2 (<0.01%) | 2 (<0.01%) | 10 (0.01%) | 121 (0.01%) | 1 (<0.01%) | 1 (0.01%) |
| Respiratory system, intrathoracic, other | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 3 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Salivary glands, major | | | | | | | |
| (other/unspecified) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 19 (<0.01%) | 0 (0.00%) | 0 (0.00%) |
| Small intestine | 0 (0.00%) | 3 (0.01%) | 4 (<0.01%) | 13 (0.01%) | 149 (0.01%) | 2 (0.01%) | 0 (0.00%) |
| Stomach | 0 (0.00%) | 15 (0.03%) | 11 (0.01%) | 47 (0.02%) | 250 (0.01%) | 7 (0.02%) | 2 (0.02%) |
| Thymus | 0 (0.00%) | 1 (<0.01%) | 0 (0.00%) | 0 (0.00%) | 12 (<0.01%) | 1 (<0.01%) | 0 (0.00%) |
| Thyroid | 0 (0.00%) | 8 (0.01%) | 14 (0.01%) | 37 (0.02%) | 457 (0.02%) | 3 (0.01%) | 0 (0.00%) |
| Tongue, part of (other/unspecified) | 0 (0.00%) | 2 (<0.01%) | 0 (0.00%) | 2 (<0.01%) | 85 (<0.01%) | 2 (0.01%) | 1 (0.01%) |
| Tonsil | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (<0.01%) | 21 (<0.01%) | 1 (<0.01%) | 0 (0.00%) |
| Trachea | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (<0.01%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| Ureter | 1 (0.02%) | 3 (0.01%) | 2 (<0.01%) | 1 (<0.01%) | 81 (<0.01%) | 2 (0.01%) | 0 (0.00%) |
| Urinary organs (other/unspecified) | 1 (0.02%) | 2 (<0.01%) | 2 (<0.01%) | 4 (<0.01%) | 30 (<0.01%) | 1 (<0.01%) | 0 (0.00%) |
| Uterus, not otherwise specified ² | 1 (0.03%) | 4 (0.01%) | 5 (0.01%) | 16 (0.02%) | 117 (0.01%) | 1 (0.01%) | 0 (0.00%) |
| Other/unknown site of cancer | 3 (0.05%) | 11 (0.02%) | 15 (0.01%) | 39 (0.02%) | 509 (0.02%) | 2 (0.01%) | 5 (0.06%) |
| Other/unknown cancers reported on | | , , | , , | , , | , , | . , | , , |
| death form | 5 (0.08%) | 8 (0.01%) | 13 (0.01%) | 39 (0.02%) | 434 (0.02%) | 2 (0.01%) | 4 (0.04%) |

¹ Native Hawaiian/Other Pacific Islander CT and OS participants (n=119) are combined with Asian CT and OS participants for reporting purposes due to small numbers.

² Only women without a baseline hysterectomy are used to compute the annual rates of endometrial and uterine cancer.

Table 4.1

Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by <u>Age at Enrollment</u> for <u>MRC Super Cohort Participants</u>¹ Who Did Not Report a Prevalent Condition at Baseline

| | | Age at Enrollment | | | | | | |
|------------------------------------|---------------|-------------------|--------------|--------------|--------------|--|--|--|
| Outcome | Total | 50-54 | 55-59 | 60-69 | 70-79 | | | |
| Number of participants | 44174 | 6788 | 9352 | 19418 | 8616 | | | |
| Mean follow-up (months) | 184.4 | 198.6 | 199.2 | 185.5 | 154.6 | | | |
| Angina (hospitalized) ² | 3563 (0.55%) | 448 (0.41%) | 675 (0.45%) | 1720 (0.61%) | 720 (0.71%) | | | |
| Diabetes (treated) | 8161 (1.28%) | 1447 (1.35%) | 1869 (1.28%) | 3691 (1.31%) | 1154 (1.11%) | | | |
| Hysterectomy | 1921 (0.49%) | 309 (0.51%) | 482 (0.52%) | 862 (0.50%) | 268 (0.43%) | | | |
| Osteoarthritis ³ | 14000 (3.29%) | 2445 (2.90%) | 3284 (3.07%) | 6097 (3.42%) | 2174 (3.85%) | | | |
| Intestinal polyps | 10813 (1.71%) | 1820 (1.68%) | 2577 (1.75%) | 4888 (1.76%) | 1528 (1.56%) | | | |
| Lupus ³ | 811 (0.12%) | 132 (0.12%) | 181 (0.12%) | 370 (0.13%) | 128 (0.12%) | | | |
| Hypertension treated w/pills | 16655 (3.62%) | 2750 (3.18%) | 3744 (3.35%) | 7267 (3.73%) | 2894 (4.32%) | | | |
| $COPD^4$ | 2778 (0.81%) | 402 (0.68%) | 661 (0.84%) | 1372 (0.92%) | 343 (0.65%) | | | |
| Macular degeneration ⁵ | 5340 (1.08%) | 485 (0.57%) | 956 (0.83%) | 2681 (1.23%) | 1218 (1.60%) | | | |
| Dementia ⁵ | 4811 (0.97%) | 284 (0.33%) | 615 (0.53%) | 2459 (1.13%) | 1453 (1.91%) | | | |
| Parkinson's disease ⁵ | 643 (0.13%) | 68 (0.08%) | 133 (0.12%) | 331 (0.15%) | 111 (0.15%) | | | |

¹ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

² During WHI Extension Study 2005-2010, the outcome was angina with hospitalization for a heart condition that may or may not have been related to the angina.

³ This outcome has not been self-reported on all versions of Form 33 during WHI follow-up. The annualized percentages are corrected for the different amounts of follow-up.

⁴ Data only collected during the WHI Extension Study 2010-2025.

⁵ Data only collected during the WHI Extension Studies 2005-2025.

Table 4.2
Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by <u>Race/Ethnicity</u> for <u>MRC Super Cohort Participants</u>¹ Who Did Not Report a Prevalent Condition at Baseline

| | | | | Race/Ethnicity | | | |
|------------------------------------|---------------|-----------------------|--------------|----------------|--------------|-------------|------------|
| | | Asian or | | | | | |
| | | Native | | | | | |
| | American | Hawaiian/ | | Non-Hispanic | | | |
| | Indian/ | Other Pacific | Hispanic/ | Black/African | Non-Hispanic | More than | Other/Not |
| Outcomes | Alaska Native | Islander ² | Latina | American | White | one Race | Reported |
| Number of participants | 108 | 526 | 6525 | 14025 | 22278 | 550 | 162 |
| Mean follow-up (months) | 166.6 | 178.0 | 160.1 | 167.6 | 201.9 | 205.3 | 162.6 |
| Angina (hospitalized) ³ | 12 (0.85%) | 24 (0.33%) | 372 (0.45%) | 1033 (0.57%) | 2049 (0.57%) | 62 (0.71%) | 11 (0.53%) |
| Diabetes (treated) | 18 (1.48%) | 100 (1.36%) | 1184 (1.44%) | 2857 (1.62%) | 3847 (1.06%) | 121 (1.42%) | 34 (1.63%) |
| Hysterectomy | 2 (0.26%) | 13 (0.24%) | 292 (0.60%) | 434 (0.50%) | 1160 (0.48%) | 18 (0.41%) | 2 (0.16%) |
| Osteoarthritis ⁴ | 29 (3.53%) | 178 (3.22%) | 2118 (3.63%) | 3972 (3.39%) | 7459 (3.14%) | 191 (3.58%) | 53 (3.76%) |
| Intestinal polyps | 26 (1.86%) | 109 (1.54%) | 1347 (1.64%) | 3439 (1.90%) | 5695 (1.63%) | 164 (1.88%) | 33 (1.58%) |
| Lupus ⁴ | 1 (0.07%) | 4 (0.05%) | 132 (0.16%) | 280 (0.15%) | 378 (0.10%) | 15 (0.16%) | 1 (0.05%) |
| Hypertension treated w/pills | 49 (5.00%) | 196 (3.65%) | 2407 (3.65%) | 4231 (4.24%) | 9486 (3.38%) | 238 (3.87%) | 48 (3.63%) |
| COPD ⁵ | 6 (0.75%) | 19 (0.45%) | 264 (0.50%) | 689 (0.63%) | 1750 (1.02%) | 44 (1.06%) | 6 (0.47%) |
| Macular degeneration ⁶ | 11 (0.89%) | 42 (0.76%) | 560 (0.77%) | 932 (0.60%) | 3705 (1.47%) | 73 (1.20%) | 17 (0.91%) |
| Dementia ⁶ | 7 (0.57%) | 46 (0.84%) | 506 (0.69%) | 1089 (0.70%) | 3073 (1.22%) | 76 (1.25%) | 14 (0.75%) |
| Parkinson's disease ⁶ | 2 (0.16%) | 8 (0.15%) | 73 (0.10%) | 148 (0.10%) | 401 (0.16%) | 9 (0.15%) | 2 (0.11%) |

¹ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines.

² Native Hawaiian/Other Pacific Islander MRC Super Cohort participants (n=40) are combined with Asian MRC Super Cohort participants for reporting purposes due to small numbers.

³ During WHI Extension Study 2005-2010, the outcome was angina with hospitalization for a heart condition that may or may not have been related to the angina.

⁴ This outcome has not been self-reported on all versions of Form 33 during WHI follow-up. The annualized percentages are corrected for the different amounts of follow-up.

⁵ Data only collected during the WHI Extension Study 2010-2025.

⁶ Data only collected during the WHI Extension Studies 2005-2025.

Table 4.3

Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by <u>Age at Enrollment</u> for <u>SRC Super Cohort Participants</u>¹ Who Did Not Report a Prevalent Condition at Baseline

| | | | Age at Er | rollment | |
|------------------------------------|---------------|--------------|--------------|---------------|--------------|
| Outcome | Total | 50-54 | 55-59 | 60-69 | 70-79 |
| Number of participants | 117634 | 14781 | 22638 | 53171 | 27044 |
| Mean follow-up (months) | 202.0 | 234.3 | 228.3 | 203.7 | 159.1 |
| DVT | 4528 (0.24%) | 413 (0.15%) | 775 (0.19%) | 2239 (0.26%) | 1101 (0.32%) |
| Pulmonary embolism ² | 2816 (0.14%) | 278 (0.10%) | 528 (0.12%) | 1411 (0.16%) | 599 (0.17%) |
| Angina (hospitalized) ³ | 9370 (0.49%) | 849 (0.30%) | 1634 (0.39%) | 4728 (0.55%) | 2159 (0.65%) |
| Diabetes (treated) | 17724 (0.92%) | 2494 (0.88%) | 3817 (0.90%) | 8348 (0.95%) | 3065 (0.88%) |
| Hysterectomy | 7027 (0.59%) | 1123 (0.63%) | 1724 (0.63%) | 3185 (0.60%) | 995 (0.49%) |
| Osteoarthritis ⁴ | 38711 (3.27%) | 6049 (2.85%) | 8838 (3.06%) | 17315 (3.39%) | 6509 (3.77%) |
| Intestinal polyps | 30597 (1.69%) | 4843 (1.75%) | 7193 (1.77%) | 13797 (1.69%) | 4764 (1.53%) |
| Lupus ⁴ | 1946 (0.10%) | 252 (0.09%) | 406 (0.10%) | 900 (0.10%) | 388 (0.11%) |
| Hypertension treated w/pills | 46079 (3.12%) | 5999 (2.44%) | 9499 (2.74%) | 21269 (3.26%) | 9312 (3.99%) |
| COPD ⁵ | 8082 (0.87%) | 1006 (0.76%) | 1755 (0.90%) | 4217 (1.01%) | 1104 (0.67%) |
| Macular degeneration ⁶ | 18671 (1.32%) | 1432 (0.70%) | 2922 (0.97%) | 9648 (1.51%) | 4669 (1.87%) |
| Dementia ⁶ | 13647 (0.97%) | 604 (0.30%) | 1576 (0.52%) | 7176 (1.12%) | 4291 (1.72%) |
| Parkinson's disease ⁶ | 2367 (0.17%) | 183 (0.09%) | 437 (0.14%) | 1315 (0.21%) | 432 (0.17%) |

¹ The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaskan Native, Asian/Pacific Islander, and Unknown Race/Ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study.

² During the main WHI Study and the WHI Extension Study 2005-2010, pulmonary embolism includes only inpatient self-reports. During WHI Extension Study 2010-2025, pulmonary embolism includes both inpatient and outpatient self-reports.

³ During WHI Extension Study 2005-2010, the outcome was angina with hospitalization for a heart condition that may or may not have been related to the angina.

⁴ These outcomes have not been self-reported on all versions of Form 33 during WHI follow-up. The annualized percentages are corrected for the different amounts of follow-up.

⁵ Data only collected during the WHI Extension Study 2010-2025.

⁶ Data only collected during the WHI Extension Studies 2005-2025.

Table 4.4
Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by <u>Race/Ethnicity</u> for <u>SRC Super Cohort Participants¹</u> Who Did Not Report a Prevalent Condition at Baseline

| | | | | | | | Race/I | Ethnicity | | | | | | |
|---|---|--------------|------|-------------------------------------|-----|-------------|--------|-----------------|---------------|---------|-------|---------|-----|----------------|
| | An | nerican | N | sian or Native waiian/ | | | Non-l | Hispanic | | | | | | |
| Outcomes | Indian/ Other Pacific Alaska Native Islander ² | | | Hispanic/ Black/Af Latina Americ | | | | ispanic nite | More one I | | | her/Not | | |
| | | 379 | | 3558 | | 787 | | 142 | | 050 | 11 | | N | eported 599 |
| Number of participants Mean follow-up (months) | | 379 [49.6 | | 3338 172.2 | | 767 06.1 | | 85.8 | | 3.4 | 207 | | | 399 134.5 |
| DVT | | (0.11%) | | (0.08%) | | (0.23%) | | (0.49%) | | (0.24%) | | 0.28%) | | (0.19%) |
| Pulmonary embolism ³ | | (0.15%) | | (0.04%) | | (0.23%) | | (0.19%) | | (0.21%) | | 0.11%) | | (0.14%) |
| Angina (hospitalized) ⁴ | 16 | (0.37%) | 140 | ` / | | (0.52%) | | (0.66%) | | (0.50%) | , | 0.71%) | 23 | ` ′ |
| Diabetes (treated) | 65 | (1.58%) | 566 | (1.16%) | 151 | (1.16%) | 37 | (1.79%) | 16607 | (0.90%) | 214 (| 1.17%) | 84 | (1.32%) |
| Hysterectomy | 12 | (0.50%) | 122 | (0.37%) | 42 | (0.49%) | 4 | (0.38%) | 6772 | (0.60%) | 53 (| 0.52%) | 22 | (0.54%) |
| Osteoarthritis ⁵ | 97 | (3.62%) | 1168 | (3.17%) | 296 | (3.66%) | 44 | (3.45%) | 36577 | (3.27%) | 393 (| 3.36%) | 136 | (3.25%) |
| Intestinal polyps | 70 | (1.60%) | 756 | (1.64%) | 224 | (1.83%) | 45 | (2.23%) | 29082 | (1.69%) | 299 (| 1.71%) | 121 | (1.95%) |
| Lupus ⁵ | 10 | (0.22%) | 39 | (0.08%) | 13 | (0.10%) | 2 | (0.09%) | 1840 | (0.10%) | 31 (| 0.17%) | 11 | (0.17%) |
| Hypertension treated w/pills | 119 | (3.81%) | 1178 | (3.25%) | 340 | (3.32%) | 55 | (4.61%) | 43764 | (3.10%) | 450 (| 3.33%) | 173 | (3.67%) |
| $COPD^6$ | 17 | (0.59%) | 105 | (0.35%) | 59 | (0.93%) | 9 | (0.81%) | 7784 | (0.89%) | 96 (| 1.09%) | 12 | (0.26%) |
| Macular degeneration ⁷ | 27 | (0.62%) | 266 | (0.62%) | 129 | (1.36%) | 7 | (0.43%) | 18032 | (1.35%) | 169 (| 1.27%) | 41 | (0.63%) |
| Dementia ⁷ | 26 | (0.59%) | 241 | (0.56%) | 105 | (1.11%) | 13 | (0.80%) | 13072 | (0.98%) | 153 (| 1.15%) | 37 | (0.57%) |
| Parkinson's disease ⁷ | 2 | (0.05%) | 43 | (0.10%) | 18 | (0.19%) | 0 | (0.00%) | 2268 | (0.17%) | 30 (| 0.23%) | 6 | (0.09%) |

¹ The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaskan Native, Asian/Pacific Islander, and Unknown Race/Ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines.

² Native Hawaiian/Other Pacific Islander SRC Super Cohort participants (n=79) are combined with Asian SRC Super Cohort participants for reporting purposes due to small numbers.

³ During the main WHI Study and the WHI Extension Study 2005-2010, pulmonary embolism includes only inpatient self-reports. During WHI Extension Study 2010-2025, pulmonary embolism includes both inpatient and outpatient self-reports.

⁴ During WHI Extension Study 2005-2010, the outcome was angina with hospitalization for a heart condition that may or may not have been related to the angina.

⁵ These outcomes have not been self-reported on all versions of Form 33 during WHI follow-up. The annualized percentages are corrected for the different amounts of follow-up.

⁶ Data only collected during the WHI Extension Study 2010-2025.

⁷ Data only collected during the WHI Extension Studies 2005-2025.

Table 4.5

Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by <u>Age at Enrollment</u> for <u>CT Participants</u> Who Did Not Report a Prevalent Condition at Baseline

| | | | Age at En | rollment | |
|------------------------------------|---------------|--------------|---------------|---------------|---------------|
| Outcome | Total | 50-54 | 55-59 | 60-69 | 70-79 |
| Number randomized | 68132 | 9188 | 14661 | 31389 | 12894 |
| Mean follow-up (months) | 206.1 | 229.3 | 225.1 | 206.5 | 167.3 |
| Hospitalizations | | | | | |
| Ever | 51949 (4.44%) | 5881 (3.35%) | 10329 (3.76%) | 24902 (4.61%) | 10837 (6.03%) |
| Two or more | 39854 (3.41%) | 4060 (2.31%) | 7572 (2.75%) | 19563 (3.62%) | 8659 (4.82%) |
| Other | | | | | |
| DVT | 3052 (0.27%) | 267 (0.16%) | 590 (0.22%) | 1508 (0.29%) | 687 (0.40%) |
| Pulmonary embolism ¹ | 1827 (0.16%) | 181 (0.10%) | 359 (0.13%) | 933 (0.17%) | 354 (0.20%) |
| Angina (hospitalized) ² | 6066 (0.54%) | 625 (0.36%) | 1143 (0.43%) | 3085 (0.60%) | 1213 (0.73%) |
| Diabetes (treated) | 12404 (1.10%) | 1915 (1.12%) | 2866 (1.08%) | 5849 (1.13%) | 1774 (1.03%) |
| Gallbladder disease ^{3,4} | 5248 (1.15%) | 746 (1.07%) | 1195 (1.15%) | 2463 (1.21%) | 844 (1.05%) |
| Hysterectomy | 3800 (0.55%) | 589 (0.58%) | 986 (0.57%) | 1751 (0.56%) | 474 (0.47%) |
| Glaucoma ⁴ | 7565 (1.78%) | 744 (1.19%) | 1457 (1.53%) | 3662 (1.92%) | 1702 (2.24%) |
| Osteoporosis ⁴ | 14697 (3.53%) | 1451 (2.32%) | 2635 (2.80%) | 7142 (3.83%) | 3469 (4.72%) |
| Osteoarthritis ⁵ | 23995 (3.27%) | 3895 (2.91%) | 5881 (3.07%) | 10825 (3.40%) | 3394 (3.76%) |
| Rheumatoid arthritis ⁴ | 4010 (0.76%) | 538 (0.70%) | 866 (0.74%) | 1822 (0.77%) | 784 (0.84%) |
| Intestinal polyps | 18612 (1.71%) | 2959 (1.74%) | 4619 (1.77%) | 8606 (1.73%) | 2428 (1.53%) |
| Lupus ⁵ | 1165 (0.10%) | 158 (0.09%) | 277 (0.10%) | 549 (0.10%) | 181 (0.10%) |
| Kidney stones ^{4,5} | 1877 (0.50%) | 241 (0.46%) | 379 (0.47%) | 898 (0.53%) | 359 (0.51%) |
| Cataracts ^{4,5} | 21571 (6.44%) | 1468 (2.79%) | 3731 (4.62%) | 11650 (7.63%) | 4722 (9.66%) |
| Hypertension treated w/pills | 27951 (3.31%) | 3950 (2.75%) | 6380 (3.01%) | 12985 (3.46%) | 4636 (4.11%) |
| $COPD^6$ | 4970 (0.92%) | 624 (0.77%) | 1158 (0.92%) | 2609 (1.06%) | 579 (0.72%) |
| Macular degeneration ⁷ | 10525 (1.32%) | 822 (0.68%) | 1846 (0.98%) | 5570 (1.52%) | 2287 (1.97%) |
| Dementia ⁷ | 8256 (1.04%) | 416 (0.35%) | 1046 (0.56%) | 4414 (1.21%) | 2380 (2.05%) |
| Parkinson's disease ⁷ | 1249 (0.16%) | 106 (0.09%) | 274 (0.15%) | 681 (0.19%) | 188 (0.16%) |

¹ During the main WHI Study and the WHI Extension Study 2005-2010, pulmonary embolism includes only inpatient self-reports. During WHI Extension Study 2010-2025, pulmonary embolism includes both inpatient and outpatient self-reports.

² During WHI Extension Study 2005-2010, the outcome was angina with hospitalization for a heart condition that may or may not have been related to the angina.

³ "Gallbladder disease" includes self-reports of both hospitalized and non-hospitalized events.

⁴ Data not collected for the WHI Extension Studies 2005-2025.

⁵ These outcomes have not been self-reported on all versions of Form 33 during WHI follow-up. The annualized percentages are corrected for the different amounts of follow-up.

⁶ Data only collected during the WHI Extension Study 2010-2025.

⁷ Data only collected during the WHI Extension Studies 2005-2025.

Table 4.6

Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by <u>Race/Ethnicity</u> for <u>CT Participants</u> Who Did Not Report a Prevalent Condition at Baseline

| | | | | Race/Ethnicity | | | |
|------------------------------------|--------------------------------------|--|---------------------|---|-----------------------|-----------------------|-----------------------|
| Outcomes | American Indian/ Alaska Native | Asian or Native Hawaiian/ Other Pacific Islander ¹ | Hispanic/ Latina | Non-Hispanic Black/African American | Non-Hispanic White | More than one Race | Other/Not Reported |
| Number randomized | 180 | 1465 | 3231 | 6748 | 55407 | 821 | 280 |
| Mean follow-up (months) | 166.2 | 196.7 | 179.2 | 185.9 | 210.7 | 216.4 | 156.7 |
| Hospitalizations | | | | | | | |
| Ever | 124 (4.97%) | 879 (3.66%) | 1945 (4.03%) | 4737 (4.53%) | 43432 (4.47%) | 641 (4.33%) | 191 (5.22%) |
| Two or more | 99 (3.97%) | 544 (2.27%) | 1291 (2.67%) | 3403 (3.26%) | 33875 (3.48%) | 507 (3.42%) | 135 (3.69%) |
| Other | | | | | | | |
| DVT | 7 (0.30%) | 17 (0.07%) | 83 (0.18%) | 310 (0.30%) | 2572 (0.27%) | 47 (0.33%) | 16 (0.45%) |
| Pulmonary embolism ² | 6 (0.25%) | 6 (0.03%) | 35 (0.07%) | 173 (0.17%) | 1577 (0.16%) | 23 (0.16%) | 7 (0.19%) |
| Angina (hospitalized) ³ | 12 (0.50%) | 61 (0.26%) | 211 (0.45%) | 588 (0.60%) | 5061 (0.54%) | 119 (0.87%) | 14 (0.41%) |
| Diabetes (treated) | 31 (1.41%) | 305 (1.34%) | 682 (1.50%) | 1571 (1.67%) | 9583 (1.01%) | 183 (1.33%) | 49 (1.38%) |
| Gallbladder disease ^{4,5} | 16 (1.48%) | 85 (0.82%) | 270 (1.41%) | 404 (0.85%) | 4388 (1.18%) | 73 (1.35%) | 12 (0.71%) |
| Hysterectomy | 4 (0.35%) | 52 (0.33%) | 159 (0.58%) | 255 (0.56%) | 3283 (0.56%) | 38 (0.52%) | 9 (0.41%) |
| Glaucoma ⁵ | 20 (1.86%) | 148 (1.69%) | 381 (1.92%) | 964 (2.37%) | 5923 (1.70%) | 101 (1.96%) | 28 (1.78%) |
| Osteoporosis ⁵ | 34 (3.18%) | 374 (4.32%) | 727 (3.78%) | 879 (2.08%) | 12468 (3.68%) | 168 (3.38%) | 47 (3.07%) |
| Osteoarthritis ⁶ | 63 (4.05%) | 536 (3.07%) | 1173 (3.57%) | 2105 (3.30%) | 19722 (3.25%) | 311 (3.50%) | 85 (3.57%) |
| Rheumatoid arthritis ⁵ | 16 (1.31%) | 74 (0.68%) | 384 (1.63%) | 656 (1.33%) | 2791 (0.65%) | 63 (1.00%) | 26 (1.39%) |
| Intestinal polyps | 43 (1.85%) | 367 (1.67%) | 752 (1.64%) | 1876 (1.93%) | 15257 (1.69%) | 259 (1.87%) | 58 (1.70%) |
| Lupus ⁶ | 4 (0.17%) | 18 (0.08%) | 64 (0.14%) | 138 (0.14%) | 915 (0.10%) | 24 (0.17%) | 2 (0.06%) |
| Kidney stones ^{5,6} | 9 (0.99%) | 43 (0.55%) | 106 (0.61%) | 179 (0.48%) | 1499 (0.49%) | 32 (0.71%) | 9 (0.65%) |
| Cataracts ^{5,6} | 60 (7.03%) | 407 (5.84%) | 945 (5.68%) | 1923 (5.74%) | 17860 (6.58%) | 300 (7.18%) | 76 (6.11%) |
| Hypertension treated w/pills | 70 (4.26%) | 552 (3.33%) | 1312 (3.65%) | 2219 (4.14%) | 23350 (3.23%) | 363 (3.57%) | 85 (3.50%) |
| COPD ⁷ | 10 (0.72%) | 56 (0.46%) | 159 (0.60%) | 384 (0.72%) | 4266 (0.97%) | 83 (1.29%) | 12 (0.53%) |
| Macular degeneration ⁸ | 20 (0.96%) | 132 (0.77%) | 308 (0.87%) | 512 (0.69%) | 9407 (1.44%) | 122 (1.27%) | 24 (0.77%) |
| Dementia ⁸ | 17 (0.82%) | 122 (0.71%) | 299 (0.85%) | 625 (0.85%) | 7042 (1.08%) | 122 (1.27%) | 29 (0.93%) |
| Parkinson's disease ⁸ | 2 (0.10%) | 23 (0.13%) | 43 (0.12%) | 70 (0.10%) | 1089 (0.17%) | 18 (0.19%) | 4 (0.13%) |

¹ Native Hawaiian/Other Pacific Islander CT participants (n=66) are combined with Asian CT participants for reporting purposes due to small numbers.

² During the main WHI Study and the WHI Extension Study 2005-2010, pulmonary embolism includes only inpatient self-reports. During WHI Extension Study 2010-2025, pulmonary embolism includes both inpatient and outpatient self-reports.

³ During WHI Extension Study 2005-2010, the outcome was angina with hospitalization for a heart condition that may or may not have been related to the angina.

⁴ "Gallbladder disease" includes self-reports of both hospitalized and non-hospitalized events.

⁵ Data not collected for the WHI Extension Studies 2005-2025.

⁶ These outcomes have not been self-reported on all versions of Form 33 during WHI follow-up. The annualized percentages are corrected for the different amounts of follow-up.

⁷ Data only collected during the WHI Extension Study 2010-2025.

⁸ Data only collected during the WHI Extension Studies 2005-2025.

Table 4.7
Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by <u>Age at Enrollment</u> for <u>OS Participants</u> Who Did Not Report a Prevalent Condition at Baseline

| | | | Age at E | Inrollment | |
|------------------------------------|---------------|--------------|---------------|---------------|---------------|
| Outcome | Total | 50-54 | 55-59 | 60-69 | 70-79 |
| Number enrolled | 93676 | 12381 | 17329 | 41200 | 22766 |
| Mean follow-up (months) | 190.7 | 218.5 | 215.3 | 193.0 | 152.7 |
| Hospitalizations | | | | | |
| Ever | 67149 (4.51%) | 7325 (3.25%) | 11492 (3.70%) | 30631 (4.62%) | 17701 (6.11%) |
| Two or more | 49647 (3.34%) | 4954 (2.20%) | 8155 (2.62%) | 23213 (3.50%) | 13325 (4.60%) |
| Other | | | | | |
| DVT | 3270 (0.23%) | 323 (0.15%) | 538 (0.18%) | 1569 (0.25%) | 840 (0.30%) |
| Pulmonary embolism ¹ | 2031 (0.14%) | 225 (0.10%) | 381 (0.12%) | 971 (0.15%) | 454 (0.16%) |
| Angina (hospitalized) ² | 6867 (0.48%) | 672 (0.30%) | 1166 (0.39%) | 3363 (0.54%) | 1666 (0.63%) |
| Diabetes (treated) | 13481 (0.93%) | 2026 (0.92%) | 2820 (0.93%) | 6190 (0.97%) | 2445 (0.88%) |
| Gallbladder disease ^{3,4} | 5673 (0.95%) | 834 (0.96%) | 1148 (0.98%) | 2543 (0.99%) | 1148 (0.85%) |
| Hysterectomy | 5148 (0.35%) | 843 (0.37%) | 1220 (0.39%) | 2296 (0.35%) | 789 (0.27%) |
| Glaucoma ⁴ | 8483 (1.87%) | 845 (1.33%) | 1372 (1.59%) | 3899 (1.99%) | 2367 (2.19%) |
| Osteoporosis ⁴ | 20720 (4.75%) | 2100 (3.35%) | 3378 (4.00%) | 9524 (5.07%) | 5718 (5.63%) |
| Osteoarthritis ⁵ | 28716 (3.26%) | 4599 (2.81%) | 6241 (3.05%) | 12587 (3.38%) | 5289 (3.79%) |
| Rheumatoid arthritis ⁴ | 4588 (0.68%) | 636 (0.67%) | 883 (0.68%) | 1888 (0.65%) | 1181 (0.76%) |
| Intestinal polyps | 22798 (1.69%) | 3704 (1.72%) | 5151 (1.77%) | 10079 (1.69%) | 3864 (1.54%) |
| Lupus ⁵ | 1592 (0.11%) | 226 (0.10%) | 310 (0.10%) | 721 (0.11%) | 335 (0.12%) |
| Kidney stones ^{4,5} | 2317 (0.57%) | 292 (0.55%) | 433 (0.59%) | 994 (0.57%) | 598 (0.60%) |
| Cataracts ^{4,5} | 27103 (7.93%) | 1726 (3.21%) | 4088 (5.63%) | 14045 (9.25%) | 7244 (11.34%) |
| Hypertension treated w/pills | 34783 (3.17%) | 4799 (2.54%) | 6863 (2.78%) | 15551 (3.29%) | 7570 (4.04%) |
| COPD ⁶ | 5890 (0.80%) | 784 (0.71%) | 1258 (0.84%) | 2980 (0.93%) | 868 (0.62%) |
| Macular degeneration ⁷ | 13486 (1.21%) | 1095 (0.65%) | 2032 (0.88%) | 6759 (1.37%) | 3600 (1.72%) |
| Dementia ⁷ | 10202 (0.92%) | 472 (0.28%) | 1145 (0.50%) | 5221 (1.06%) | 3364 (1.61%) |
| Parkinson's disease ⁷ | 1761 (0.16%) | 145 (0.09%) | 296 (0.13%) | 965 (0.20%) | 355 (0.17%) |
| 1 arkmson s disease | 1701 (0.1070) | 115 (0.07/0) | 270 (0.1370) | 703 (0.2070) | 333 (0.1770) |

¹ During the main WHI Study and the WHI Extension Study 2005-2010, pulmonary embolism includes only inpatient self-reports. During WHI Extension Study 2010- 2025, pulmonary embolism includes both inpatient and outpatient self-reports.

² During WHI Extension Study 2005-2010, the outcome was angina with hospitalization for a heart condition that may or may not have been related to the angina.

³ "Gallbladder disease" includes self-reports of both hospitalized and non-hospitalized events.

⁴ Data not collected for the WHI Extension Studies 2005-2025.

⁵ These outcomes have not been self-reported on all versions of Form 33. The annualized percentages are corrected for the different amounts of follow-up.

⁶ Data only collected during the WHI Extension Study 2010-2025.

⁷ Data only collected during the WHI Extension Studies 2005-2025.

Table 4.8
Counts (Annualized Percentages) of Participants with Self-Reported Outcomes by <u>Race/Ethnicity</u> for OS Participants Who Did Not Report a Prevalent Condition at Baseline

| | | | | Race/Ethnicity | | | |
|------------------------------------|--------------------------------------|--|---------------------|---|-----------------------|--------------------|-----------------------|
| Outcomes | American Indian/ Alaska Native | Asian or Native Hawaiian/ Other Pacific Islander ¹ | Hispanic/ Latina | Non-Hispanic Black/African American | Non-Hispanic White | More than one Race | Other/Not Reported |
| Number enrolled | 307 | 2619 | 4081 | 7419 | 77921 | 848 | 481 |
| Mean follow-up (months) | 145.9 | 159.7 | 153.8 | 151.3 | 197.9 | 196.9 | 130.9 |
| Hospitalizations | | | | | | | |
| Ever | 202 (5.41%) | 1224 (3.51%) | 2143 (4.10%) | 4538 (4.85%) | 58168 (4.53%) | 600 (4.31%) | 274 (5.22%) |
| Two or more | 152 (4.07%) | 714 (2.05%) | 1343 (2.57%) | 2963 (3.17%) | 43869 (3.41%) | 429 (3.08%) | 177 (3.37%) |
| Other | | | | | | | |
| DVT | 7 (0.20%) | 26 (0.08%) | 76 (0.15%) | 231 (0.26%) | 2898 (0.23%) | 26 (0.20%) | 6 (0.12%) |
| Pulmonary embolism ² | 6 (0.16%) | 14 (0.04%) | 31 (0.06%) | 137 (0.15%) | 1827 (0.14%) | 11 (0.08%) | 5 (0.10%) |
| Angina (hospitalized) ³ | 16 (0.48%) | 103 (0.30%) | 229 (0.46%) | 458 (0.53%) | 5969 (0.49%) | 72 (0.55%) | 20 (0.40%) |
| Diabetes (treated) | 52 (1.66%) | 361 (1.08%) | 653 (1.32%) | 1323 (1.57%) | 10871 (0.87%) | 152 (1.16%) | 69 (1.41%) |
| Gallbladder disease ^{4,5} | 21 (1.35%) | 78 (0.45%) | 258 (1.14%) | 365 (0.78%) | 4871 (0.98%) | 47 (0.86%) | 33 (1.26%) |
| Hysterectomy | 10 (0.27%) | 83 (0.24%) | 175 (0.33%) | 183 (0.20%) | 4649 (0.36%) | 33 (0.24%) | 15 (0.29%) |
| Glaucoma ⁵ | 31 (2.24%) | 247 (1.84%) | 359 (1.83%) | 955 (2.71%) | 6747 (1.78%) | 94 (2.20%) | 50 (2.23%) |
| Osteoporosis ⁵ | 49 (3.48%) | 623 (4.87%) | 862 (4.53%) | 1042 (2.84%) | 17848 (4.95%) | 189 (4.48%) | 107 (5.13%) |
| Osteoarthritis ⁶ | 63 (3.22%) | 810 (3.25%) | 1241 (3.68%) | 1911 (3.47%) | 24314 (3.23%) | 273 (3.35%) | 104 (3.23%) |
| Rheumatoid arthritis ⁵ | 21 (1.11%) | 94 (0.52%) | 422 (1.59%) | 643 (1.34%) | 3306 (0.58%) | 57 (0.92%) | 45 (1.54%) |
| Intestinal polyps | 53 (1.53%) | 498 (1.60%) | 819 (1.68%) | 1608 (1.88%) | 19520 (1.67%) | 204 (1.64%) | 96 (1.97%) |
| Lupus ⁶ | 7 (0.20%) | 25 (0.07%) | 81 (0.16%) | 144 (0.16%) | 1303 (0.10%) | 22 (0.16%) | 10 (0.20%) |
| Kidney stones ^{5,6} | 13 (1.01%) | 39 (0.32%) | 138 (0.78%) | 254 (0.76%) | 1835 (0.55%) | 24 (0.62%) | 14 (0.70%) |
| Cataracts ^{5,6} | 67 (6.51%) | 680 (6.87%) | 1069 (6.57%) | 1880 (6.61%) | 23005 (8.16%) | 281 (8.50%) | 121 (7.42%) |
| Hypertension treated w/pills | 98 (3.99%) | 822 (3.28%) | 1435 (3.57%) | 2067 (4.37%) | 29900 (3.09%) | 325 (3.41%) | 136 (3.76%) |
| COPD ⁷ | 13 (0.57%) | 68 (0.32%) | 164 (0.49%) | 314 (0.54%) | 5268 (0.86%) | 57 (0.87%) | 6 (0.17%) |
| Macular degeneration ⁸ | 18 (0.51%) | 176 (0.56%) | 381 (0.79%) | 427 (0.51%) | 12330 (1.32%) | 120 (1.23%) | 34 (0.64%) |
| Dementia ⁸ | 16 (0.45%) | 165 (0.53%) | 312 (0.65%) | 477 (0.57%) | 9103 (0.98%) | 107 (1.09%) | 22 (0.42%) |
| Parkinson's disease ⁸ | 2 (0.06%) | 28 (0.09%) | 48 (0.10%) | 78 (0.09%) | 1580 (0.17%) | 21 (0.21%) | 4 (0.08%) |

¹ Native Hawaiian/Other Pacific Islander OS participants (n=53) are combined with Asian OS participants for reporting purposes due to small numbers.

² During the main WHI Study and the WHI Extension Study 2005-2010, pulmonary embolism includes only inpatient self-reports. During WHI Extension Study 2010-2025, pulmonary embolism includes both inpatient and outpatient self-reports.

³ During WHI Extension Study 2005-2010, the outcome was angina with hospitalization for a heart condition that may or may not have been related to the angina.

⁴ "Gallbladder disease" includes self-reports of both hospitalized and non-hospitalized events.

⁵ Data not collected for the WHI Extension Studies 2005-2025.

⁶ These outcomes have not been self-reported on all versions of Form 33. The annualized percentages are corrected for the different amounts of follow-up.

⁷ Data only collected during the WHI Extension Study 2010-2025.

⁸ Data only collected during the WHI Extension Studies 2005-2025.

Table 4.9
Self-Reported Fractures (Annualized Percentages): MRC and SRC Super Cohort Participants

| | MRC Sup | er Cohort ¹ | SRC Sup | er Cohort ² |
|-------------------------|---------|------------------------|---------|------------------------|
| Number of participants | 44 | 174 | 117 | 7634 |
| Mean follow-up (months) | 18 | 35.8 | 20 | 3.7 |
| Elbow | 691 | (0.10%) | 2405 | (0.12%) |
| Foot | 2005 | (0.29%) | 7435 | (0.37%) |
| Hand | 650 | (0.10%) | 2085 | (0.10%) |
| Hip | 1908 | (0.28%) | 6983 | (0.35%) |
| Knee | 1113 | (0.16%) | 3365 | (0.17%) |
| Lower arm | 3299 | (0.48%) | 10826 | (0.54%) |
| Lower leg | 2459 | (0.36%) | 7850 | (0.39%) |
| Pelvis | 871 | (0.13%) | 3818 | (0.19%) |
| Tailbone | 315 | (0.05%) | 1261 | (0.06%) |
| Upper arm | 2044 | (0.30%) | 6613 | (0.33%) |
| Upper leg | 781 | (0.11%) | 3092 | (0.15%) |
| Spine | 2052 | (0.30%) | 8773 | (0.44%) |
| Other | 7106 | (1.04%) | 24934 | (1.25%) |
| Any fracture | 15656 | (2.29%) | 52525 | (2.63%) |

¹ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

² The SRC Super Cohort includes all Non-Hispanic White, American Indian/Alaska Native, Asian/Pacific Islander, and Unknown Race/Ethnicity participants (identified from race/ethnicity collected on Form 2 at baseline) from the Dietary Modification Trial (not also in the Hormone Trial) and the Observational Study.

Table 4.10 Self-Reported Fractures (Annualized Percentages): <u>CT and OS Participants</u>

| | (| CT | (| OS | To | otal |
|-------------------------|-------|---------|-------|---------|-------|---------|
| Number of participants | 68 | 132 | 93 | 676 | 161 | 1808 |
| Mean follow-up (months) | 20 | 7.7 | 192.3 | | 19 | 8.8 |
| Elbow | 1321 | (0.11%) | 1775 | (0.12%) | 3096 | (0.12%) |
| Foot | 4124 | (0.35%) | 5316 | (0.35%) | 9440 | (0.35%) |
| Hand | 1264 | (0.11%) | 1471 | (0.10%) | 2735 | (0.10%) |
| Hip | 3775 | (0.32%) | 5116 | (0.34%) | 8891 | (0.33%) |
| Knee | 1905 | (0.16%) | 2573 | (0.17%) | 4478 | (0.17%) |
| Lower arm | 6226 | (0.53%) | 7899 | (0.53%) | 14125 | (0.53%) |
| Lower leg | 4599 | (0.39%) | 5710 | (0.38%) | 10309 | (0.38%) |
| Pelvis | 1888 | (0.16%) | 2801 | (0.19%) | 4689 | (0.17%) |
| Tailbone | 646 | (0.05%) | 930 | (0.06%) | 1576 | (0.06%) |
| Upper arm | 3921 | (0.33%) | 4736 | (0.32%) | 8657 | (0.32%) |
| Upper leg | 1644 | (0.14%) | 2229 | (0.15%) | 3873 | (0.14%) |
| Spine | 4502 | (0.38%) | 6323 | (0.42%) | 10825 | (0.40%) |
| Other | 13552 | (1.15%) | 18488 | (1.23%) | 32040 | (1.20%) |
| Any fracture | 29280 | (2.48%) | 38901 | (2.59%) | 68181 | (2.54%) |

Table 5.1
Agreement of the Central Adjudications with Self-Reports for Outcomes Reported in Extension Study 2010-2025

| | Participants | CI. | , | 0.0 | w 1 | | - related | | - unrelated | _ | ied – no |
|------------------------------|------------------------------------|-------|-----------|------|---------------------------|-------------|--------------------------------|-------------|------------------------------|-------------|------------------------------|
| | with a self-report ¹ | N CIG | osed % | Conf | irmed (%) ³ | outcon N | ne found ² $(\%)^3$ | outcor N | ne found (%) ³ | outcoi N | me found (%) ³ |
| Cardiovascular | sen report | 11 | 70 | 11 | (70) | 11 | (70) | 11 | (70) | 11 | (70) |
| Clinical MI | 793 | 692 | 87% | 444 | (64%) | 125 | (18%) | 3 | (0%) | 120 | (17%) |
| CABG | 257 | 228 | 89% | 155 | (68%) | 43 | (19%) | 0 | (0%) | 30 | (13%) |
| PTCA | 799 | 727 | 91% | 486 | (67%) | 104 | (14%) | 3 | (0%) | 134 | (18%) |
| Carotid artery disease | 223 | 201 | 90% | 111 | (55%) | 53 | (26%) | 0 | (0%) | 37 | (18%) |
| Stroke | 1612 | 1386 | 86% | 975 | (70%) | 152 | (11%) | 1 | (0%) | 258 | (19%) |
| PAD | 391 | 310 | 79% | 135 | (44%) | 75 | (24%) | 2 | (1%) | 98 | (32%) |
| DVT | 852 | 708 | 83% | 405 | (57%) | 123 | (17%) | 6 | (1%) | 174 | (25%) |
| Pulmonary embolism | 452 | 406 | 90% | 345 | (85%) | 26 | (6%) | 3 | (1%) | 32 | (8%) |
| Valvular heart disease | 538 | 480 | 89% | 340 | (71%) | 88 | (18%) | 0 | (0%) | 52 | (11%) |
| Cancers | | | | | , , | | | | , | | |
| Breast cancer | 3700 | 3510 | 95% | 3431 | (98%) | 7 | (0%) | 1 | (0%) | 71 | (2%) |
| Ovarian cancer | 447 | 403 | 90% | 250 | (62%) | 103 | (26%) | 0 | (0%) | 50 | (12%) |
| Endometrial cancer | 582 | 548 | 94% | 417 | (76%) | 102 | (19%) | 1 | (0%) | 28 | (5%) |
| Cervical cancer | 84 | 77 | 92% | 18 | (23%) | 23 | (30%) | 1 | (1%) | 35 | (45%) |
| Colorectal cancer | 1078 | 987 | 92% | 835 | (85%) | 74 | (7%) | 4 | (0%) | 74 | (7%) |
| Bladder/urinary tract cancer | 492 | 450 | 91% | 387 | (86%) | 28 | (6%) | 0 | (0%) | 35 | (8%) |
| Brain cancer | 206 | 155 | 75% | 59 | (38%) | 20 | (13%) | 2 | (1%) | 74 | (48%) |
| Esophagus cancer | 86 | 75 | 87% | 46 | (61%) | 12 | (16%) | 1 | (1%) | 16 | (21%) |
| Gallbladder/bile duct cancer | 106 | 96 | 91% | 37 | (39%) | 43 | (45%) | 0 | (0%) | 16 | (17%) |
| Kidney cancer | 393 | 353 | 90% | 212 | (60%) | 76 | (22%) | 2 | (1%) | 63 | (18%) |
| Leukemia | 401 | 357 | 89% | 269 | (75%) | 29 | (8%) | 2 | (1%) | 57 | (16%) |
| Liver cancer | 365 | 287 | 79% | 64 | (22%) | 55 | (19%) | 7 | (2%) | 161 | (56%) |
| Lung cancer | 1578 | 1378 | 87% | 1150 | (83%) | 66 | (5%) | 3 | (0%) | 159 | (12%) |
| Hodgkin's lymphoma | 69 | 57 | 83% | 11 | (19%) | 33 | (58%) | 0 | (0%) | 13 | (23%) |
| Non-Hodgkin's lymphoma | 525 | 478 | 91% | 411 | (86%) | 39 | (8%) | 0 | (0%) | 28 | (6%) |
| Melanoma | 1944 | 1482 | 76% | 1144 | (77%) | 49 | (3%) | 0 | (0%) | 289 | (20%) |
| Multiple myeloma | 241 | 212 | 88% | 182 | (86%) | 11 | (5%) | 3 | (1%) | 16 | (8%) |
| Pancreas cancer | 496 | 435 | 88% | 362 | (83%) | 29 | (7%) | 3 | (1%) | 41 | (9%) |
| Stomach cancer | 181 | 158 | 87% | 64 | (41%) | 44 | (28%) | 0 | (0%) | 50 | (32%) |

¹ Excludes duplicates and prior conditions.

² All cardiovascular outcomes are considered related, all cancers are considered related and all fractures are considered related.

³ Percentages between parentheses are relative to "closed."

Table 5.1 (continued)

Agreement of the Central Adjudications with Self-Reports for Outcomes Reported in Extension Study 2010-2025

| | Participants with a | Clos | Closed | | irmed | Denied – related outcome found ² | | Denied – unrelated outcome found | | Denied – no outcome found | |
|---|--------------------------|------|--------|-----|----------|---|----------|----------------------------------|----------|------------------------------|----------|
| | self-report ¹ | N | % | N | $(\%)^3$ | N | $(\%)^3$ | N | $(\%)^3$ | N | $(\%)^3$ |
| Thyroid cancer | 189 | 168 | 89% | 133 | (79%) | 5 | (3%) | 0 | (0%) | 30 | (18%) |
| Other genital organ cancer ⁴ | 157 | 132 | 84% | 14 | (11%) | 95 | (72%) | 0 | (0%) | 23 | (17%) |
| Other cancer ⁵ | 1225 | 922 | 75% | 422 | (46%) | 207 | (22%) | 7 | (1%) | 286 | (31%) |
| Fractures | | | | | | | | | | | |
| Hip fracture | 912 | 769 | 84% | 658 | (86%) | 0 | (0%) | 8 | (1%) | 103 | (13%) |
| Upper leg fracture ⁶ | 459 | 395 | 86% | 0 | (0%) | 179 | (45%) | 19 | (5%) | 197 | (50%) |

 ¹ Excludes duplicates and prior conditions.
 ² All cardiovascular outcomes are considered related, all cancers are considered related and all fractures are considered related.
 ³ Percentages between parentheses are relative to "closed."

⁴ Does not include cancer of the ovary, endometrium, or cervix.

⁵ Any cancer other than those listed above, excluding non-melanoma skin cancer.

⁶ Upper leg fractures are only investigated for possible occurrence of hip fracture.

 $\label{eq:total continuous cont$

| | Potential | Case Eligible for UNC ³ | | | Case Processed by UNC ³ | | by UNC ³ | | onfirmed ⁴ | Case] | Denied | _ | ase sifiable |
|-------------------|-------------------|------------------------------------|----------|------|---------------------------------------|------|---------------------|------|-----------------------|--------|----------|---|-----------------|
| | Case ² | N | % | N | $(\%)^5$ | N | $(\%)^6$ | N | $(\%)^6$ | N | $(\%)^6$ | | |
| Overall | 8949 | 8861 | 99% | 8660 | (98%) | 6966 | (80%) | 1244 | (14%) | 449 | (5%) | | |
| By Self Report | | | | | | | | | | | | | |
| Self-reported HF | 4641 | 4592 | 99% | 4411 | (96%) | 3732 | (85%) | 571 | (13%) | 108 | (2%) | | |
| No HF self-report | 4308 | 4269 | 99% | 4249 | (100%) | 3234 | (76%) | 673 | (16%) | 341 | (8%) | | |

¹ The MRC Super Cohort includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS.

² Includes all self-reported or discovered heart failure cases and a portion of self-reported angina or other heart condition cases with 2 or more essential documents among MRC Super Cohort participants.

³ Cases are eligible if they self-reported HF, or if not, were forwarded by another outcomes committee for possible HF; cases are sent to and processed by UNC when all required records have been received.

⁴ Diagnosis was either definite or probable decompensated heart failure, or chronic stable heart failure.

⁵ Percentages are relative to "Case Eligible for UNC".

⁶ Percentages are relative to "Case Processed by UNC".

Table 5.3
Source of Outcomes Confirmed by Central Adjudication for Self-Reported Outcomes in Extension Study 2010-2025

| | | | Reaso | on for cent | ral investig | ation | |
|---|-----------------------|-------|------------------------|-------------|--------------------------------|-------|---------------------------------------|
| | Centrally confirmed N | | oort same come % | | report outcome ¹ | unre | report elated come ² |
| Cardiovascular | | | | · | | | |
| Clinical MI | 856 | 444 | 52% | 239 | 28% | 173 | 20% |
| CABG | 176 | 155 | 88% | 17 | 10% | 4 | 2% |
| PTCA | 555 | 489 | 88% | 51 | 9% | 15 | 3% |
| Carotid artery disease | 102 | 85 | 83% | 11 | 11% | 6 | 6% |
| Stroke | 1099 | 985 | 90% | 18 | 2% | 96 | 9% |
| PAD | 207 | 135 | 65% | 59 | 29% | 13 | 6% |
| DVT | 549 | 415 | 76% | 66 | 12% | 68 | 12% |
| Pulmonary embolism | 453 | 343 | 76% | 54 | 12% | 56 | 12% |
| Valvular heart disease | 550 | 339 | 62% | 143 | 26% | 68 | 12% |
| | 220 | 337 | 0270 | 113 | 2070 | | 1270 |
| Cancers | 2.474 | 2.121 | 000/ | 2.4 | 40/ | 4.5 | 4.07 |
| Breast cancer | 3471 | 3431 | 99% | 24 | 1% | 16 | <1% |
| Ovarian cancer | 275 | 250 | 91% | 19 | 7% | 6 | 2% |
| Endometrial cancer | 460 | 417 | 91% | 39 | 8% | 4 | 1% |
| Cervical cancer | 25 | 18 | 72% | 6 | 24% | 1 | 4% |
| Colorectal cancer | 865 | 827 | 96% | 27 | 3% | 11 | 1% |
| Bladder/urinary tract cancer ³ | 495 | 389 | 79% | 99 | 20% | 7 | 1% |
| Brain cancer | 59 | 59 | 100% | 0 | 0% | 0 | 0% |
| Esophagus cancer | 48 | 47 | 98% | 1 | 2% | 0 | 0% |
| Gallbladder/bile duct cancer | 86 | 37 | 43% | 49 | 57% | 0 | 0% |
| Kidney cancer | 224 | 215 | 96% | 5 | 2% | 4 | 2% |
| Leukemia | 331 | 269 | 81% | 49 | 15% | 13 | 4% |
| Liver cancer | 77 | 65 | 84% | 10 | 13% | 2 | 3% |
| Lung cancer | 1220 | 1156 | 95% | 37 | 3% | 27 | 2% |
| Hodgkin's lymphoma | 18 | 11 | 61% | 5 | 28% | 2 | 11% |
| Non-Hodgkin's lymphoma | 581 | 411 | 71% | 165 | 28% | 5 | 1% |
| Melanoma | 1166 | 1150 | 99% | 14 | 1% | 2 | <1% |
| Multiple myeloma | 210 | 182 | 87% | 24 | 11% | 4 | 2% |
| Pancreas cancer | 382 | 363 | 95% | 11 | 3% | 8 | 2% |
| Stomach cancer | 85 | 64 | 75% | 17 | 20% | 4 | 5% |
| Thyroid cancer | 138 | 133 | 96% | 3 | 2% | 2 | 1% |
| Other genital organ cancer ⁴ | 169 | 14 | 8% | 154 | 91% | 1 | 1% |
| Fractures | | | | | | | |
| Hip fracture | 839 | 654 | 78% | 164 | 20% | 21 | 3% |

¹ All cardiovascular outcomes are considered related, all cancers are considered related and all fractures are considered related.

² Includes self-report of hospitalizations.

³ Cancers of the urinary tract include renal pelvis, ureter and urinary organs (NOS).

⁴ Does not include cancers of the ovary, endometrium or cervix; includes cancers of the vulva, vagina, uterus (NOS) and genital organs (NOS).

Table 6.1

Consent Status and Participant Characteristics for Long Life Study Participants¹ by Race/Ethnicity

Data as of: March 6, 2021

| | Т | 'otal ² | Hispa | nic/Latina | Blac | -Hispanic k/African nerican | | -Hispanic White | | ore than ne Race |
|--|-------|--------------------|-------|-------------------|------|-----------------------------------|------|--------------------|-----|---------------------|
| | N | Mean (SD) or % | N | Mean (SD) or % | N | Mean (SD) or % | N | Mean (SD) or % | N | Mean (SD) or % |
| Number eligible | 14081 | | 2211 | | 5148 | | 6482 | | 184 | |
| Phase 1: Age 72-79 | 9930 | 70.5 | 1405 | 63.5 | 3465 | 67.3 | 4880 | 75.3 | 137 | 74.5 |
| Phase 2: Age 63-72 | 2651 | 18.8 | 730 | 33.0 | 1438 | 27.9 | 437 | 6.7 | 34 | 18.5 |
| Phase 3: Age 64-98 | 1500 | 10.7 | 76 | 3.4 | 245 | 4.8 | 1165 | 18.0 | 13 | 7.1 |
| Consented ³ | 9246 | 65.7 | 1493 | 67.5 | 3044 | 59.1 | 4539 | 70.0 | 136 | 73.9 |
| Completed visit 2012-2013 ⁴ | 7875 | 85.2 | 1277 | 85.5 | 2483 | 81.6 | 3978 | 87.6 | 110 | 80.9 |
| | | | | | | | | | | |
| LLS Participants | 7875 | 100.0 | 1277 | 16.2 | 2483 | 31.5 | 3978 | 50.5 | 110 | 1.4 |
| Blood draw | 7475 | 94.9 | 1238 | 96.9 | 2284 | 92.0 | 3827 | 96.2 | 101 | 91.8 |
| Age at visit | 7875 | 79.2 (6.8) | 1277 | 75.4 (6.1) | 2483 | 75.9 (6.0) | 3978 | 82.5 (5.8) | 110 | 77.8 (6.3) |
| 63-69 | 724 | 9.2 | 236 | 18.5 | 379 | 15.3 | 97 | 2.4 | 9 | 8.2 |
| 70-79 | 3050 | 38.7 | 717 | 56.1 | 1433 | 57.7 | 829 | 20.8 | 60 | 54.5 |
| 80-89 | 3689 | 46.8 | 305 | 23.9 | 620 | 25.0 | 2717 | 68.3 | 35 | 31.8 |
| ≥90 | 412 | 5.2 | 19 | 1.5 | 51 | 2.1 | 335 | 8.4 | 6 | 5.5 |
| Education | | | | | | | | | | |
| 0-8 years | 112 | 1.4 | 71 | 5.6 | 24 | 1.0 | 17 | 0.4 | 0 | 0.0 |
| Some high school | 286 | 3.7 | 76 | 6.0 | 112 | 4.6 | 96 | 2.4 | 1 | 0.9 |
| High school diploma/GED | 1288 | 16.5 | 199 | 15.7 | 280 | 11.4 | 794 | 20.0 | 10 | 9.1 |
| School after high school | 3041 | 38.9 | 543 | 42.9 | 915 | 37.2 | 1530 | 38.6 | 46 | 41.8 |
| College degree or higher | 3099 | 39.6 | 377 | 29.8 | 1130 | 45.9 | 1525 | 38.5 | 53 | 48.2 |
| Body-mass Index (BMI), kg/m ² | 7775 | 28.2 (5.9) | 1265 | 28.0 (5.6) | 2448 | 29.9 (6.2) | 3928 | 27.3 (5.5) | 107 | 28.3 (6.7) |
| Underweight (< 18.5) | 112 | 1.4 | 13 | 1.0 | 23 | 0.9 | 72 | 1.8 | 3 | 2.8 |
| Normal (18.5 - 24.9) | 2378 | 30.6 | 415 | 32.8 | 513 | 21.0 | 1410 | 35.9 | 31 | 29.0 |
| Overweight (25.0 - 29.9) | 2799 | 36.0 | 467 | 36.9 | 868 | 35.5 | 1419 | 36.1 | 39 | 36.4 |
| Obesity I (30.0 - 34.9) | 1505 | 19.4 | 233 | 18.4 | 577 | 23.6 | 664 | 16.9 | 22 | 20.6 |
| Obesity II (35.0 - 39.9) | 633 | 8.1 | 88 | 7.0 | 300 | 12.3 | 240 | 6.1 | 4 | 3.7 |
| Extreme Obesity III (>= 40) | 348 | 4.5 | 49 | 3.9 | 167 | 6.8 | 123 | 3.1 | 8 | 7.5 |

¹ Long Life Study participants are a subset of the Medical Records Cohort (MRC) which includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines.

² Separate columns for American Indian/Alaska Native (n=4), Asian or Native Hawaiian/Other Pacific Islander (n=1) and Other/Not Reported (n=22) race/ethnicities are not displayed due to small numbers, however these participants are included in the Total column.

³ Percentage is relative to number eligible.

⁴ Percentage is relative to consented.

Table 6.1 (continued)

Consent Status and Participant Characteristics for Long Life Study Participants¹ by Race/Ethnicity

| | Total ² | | Hispanic/Latina | | Non-Hispanic Black/African American | | Non-Hispanic White | | More than one Race | |
|--------------------------------|--------------------|-------------------|-----------------|-------------------|---|-------------------|-----------------------|-------------------|--------------------|-------------------|
| | N | Mean (SD) or % | N | Mean (SD) or % | N | Mean (SD) or % | N | Mean (SD) or % | N | Mean (SD) or % |
| Systolic blood pressure, mmHg | 7864 | 125.9 (14.6) | 1276 | 123.8 (13.7) | 2478 | 127.1 (14.4) | 3973 | 125.7 (14.8) | 110 | 127.1 (16.8) |
| <=120 | 2962 | 37.7 | 566 | 44.4 | 851 | 34.3 | 1499 | 37.7 | 36 | 32.7 |
| 120 - 140 | 3796 | 48.3 | 564 | 44.2 | 1246 | 50.3 | 1918 | 48.3 | 56 | 50.9 |
| >140 | 1106 | 14.1 | 146 | 11.4 | 381 | 15.4 | 556 | 14.0 | 18 | 16.4 |
| Diastolic blood pressure, mmHg | 7862 | 72.6 (8.9) | 1275 | 72.2 (8.2) | 2479 | 74.0 (8.8) | 3971 | 71.8 (9.1) | 110 | 73.3 (9.4) |
| <80 | 6073 | 77.2 | 1037 | 81.3 | 1807 | 72.9 | 3125 | 78.7 | 83 | 75.5 |
| 80-89 | 1535 | 19.5 | 209 | 16.4 | 567 | 22.9 | 730 | 18.4 | 24 | 21.8 |
| ≥90 | 254 | 3.2 | 29 | 2.3 | 105 | 4.2 | 116 | 2.9 | 3 | 2.7 |
| Grip strength, kg | 7274 | 17.8 (7.0) | 1154 | 18.0 (6.3) | 2329 | 20.0 (7.3) | 3662 | 16.4 (6.7) | 102 | 19.0 (7.2) |
| Repeated chair stands, | 6949 | 0.35 (0.13) | 1182 | 0.37 (0.1) | 2178 | 0.34 (0.1) | 3468 | 0.35 (0.1) | 98 | 0.34 (0.1) |
| Walking pace, m/sec | 6911 | 0.65 (0.29) | 1124 | 0.73 (0.3) | 2164 | 0.62 (0.3) | 3502 | 0.65 (0.3) | 97 | 0.60 (0.3) |
| Look AHEAD SPPB ³ | 7022 | 1.3 (0.5) | 1147 | 1.4 (0.5) | 2238 | 1.4 (0.5) | 3517 | 1.2 (0.5) | 97 | 1.2 (0.5) |
| EPESE SPPB ⁴ | 7102 | 7.9 (2.7) | 1159 | 8.7 (2.6) | 2260 | 7.8 (2.6) | 3560 | 7.8 (2.8) | 99 | 7.4 (2.7) |

¹ Long Life Study participants are a subset of the Medical Records Cohort (MRC) which includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines.

² Separate columns for American Indian/Alaska Native (n=4), Asian or Native Hawaiian/Other Pacific Islander (n=1) and Other/Not Reported (n=22) race/ethnicities are not displayed due to small numbers, however these participants are included in the Total column.

³ The Look AHEAD Short Physical Performance Battery (SPPB) ranges from 0 to 3, with higher scores indicating better physical performance.

⁴ The Established Populations for the Epidemiologic Studies of the Eldery (EPESE) Short Physical Performance Battery (SPPB) ranges from 0 to 12, with higher scores indicating better physical performance.

Table 6.2 Participation and Vital Status: Long Life Study (LLS) Participants

| | LLS Par (N=7 | - |
|---|-----------------|----------|
| | N | % |
| Vital Status/Participation | | |
| Deceased | 2252 | 28.6 |
| Alive: Current Participation ¹ | 4717 | 59.9 |
| Alive: Recent Participation ² | 405 | 5.1 |
| Stopped Follow-Up ³ | 249 | 3.2 |
| Lost to Follow-Up ⁴ | 252 | 3.2 |

Participants who have filled in a Form 33 within the last 15 months.
 Participants who last filled in a Form 33 between 15 and 24 months ago.
 Participants with codes 5 (no follow-up) or 8 (absolutely no follow-up) on Form 7 or 9.
 Participants not in any of the above categories.

Table 6.3 Verified Outcomes (Annualized Percentages) <u>After Long Life Study (LLS) Visit</u> by <u>Age at Visit</u> for <u>LLS Participants</u>

| | | Age at Visit | | | | | |
|---|--------------|-------------------|-------------|--------------|--------------|--|--|
| Outcomes | Total | 63-69 70-79 80-89 | | ≥ 90 | | | |
| Number enrolled | 7875 | 723 | 3052 | 3688 | 412 | | |
| Mean follow-up (months) after | 80.7 | 88.9 | 86.6 | 76.1 | 63.1 | | |
| LLS visit | 00.7 | 00.7 | 00.0 | 70.1 | 03.1 | | |
| Cardiovascular | | | | | | | |
| CHD^1 | 459 (0.87%) | 15 (0.28%) | 106 (0.48%) | 294 (1.26%) | 44 (2.03%) | | |
| CHD death ² | 288 (0.54%) | 6 (0.11%) | 49 (0.22%) | 192 (0.82%) | 41 (1.89%) | | |
| Clinical MI | 278 (0.53%) | 12 (0.22%) | 70 (0.32%) | 177 (0.76%) | 19 (0.88%) | | |
| CABG/PTCA | 196 (0.37%) | 12 (0.22%) | 75 (0.34%) | 104 (0.44%) | 5 (0.23%) | | |
| Carotid artery disease | 25 (0.05%) | 1 (0.02%) | 9 (0.04%) | 14 (0.06%) | 1 (0.05%) | | |
| Heart failure, UNC ³ | 513 (0.97%) | 12 (0.22%) | 110 (0.50%) | 339 (1.45%) | 52 (2.40%) | | |
| Stroke | 455 (0.86%) | 19 (0.35%) | 124 (0.56%) | 272 (1.16%) | 40 (1.85%) | | |
| PAD | 69 (0.13%) | 1 (0.02%) | 20 (0.09%) | 44 (0.19%) | 4 (0.18%) | | |
| DVT | 186 (0.35%) | 8 (0.15%) | 66 (0.30%) | 102 (0.44%) | 10 (0.46%) | | |
| Pulmonary embolism | 153 (0.29%) | 8 (0.15%) | 57 (0.26%) | 80 (0.34%) | 8 (0.37%) | | |
| Coronary disease ⁴ | 738 (1.39%) | 25 (0.47%) | 185 (0.84%) | 463 (1.98%) | 65 (3.00%) | | |
| DVT/PE | 272 (0.51%) | 14 (0.26%) | 102 (0.46%) | 143 (0.61%) | 13 (0.60%) | | |
| Aortic aneurysm | 19 (0.04%) | 2 (0.04%) | 5 (0.02%) | 11 (0.05%) | 1 (0.05%) | | |
| Valvular heart disease | 171 (0.32%) | 4 (0.07%) | 40 (0.18%) | 110 (0.47%) | 17 (0.78%) | | |
| Total cardiovascular disease ⁵ | 1170 (2.21%) | 41 (0.77%) | 308 (1.40%) | 705 (3.01%) | 116 (5.35%) | | |
| Cancer | | | | | | | |
| Breast cancer | 199 (0.38%) | 21 (0.39%) | 110 (0.50%) | 66 (0.28%) | 2 (0.09%) | | |
| Invasive breast cancer | 176 (0.33%) | 16 (0.30%) | 98 (0.45%) | 59 (0.25%) | 3 (0.14%) | | |
| In situ breast cancer | 29 (0.05%) | 6 (0.11%) | 16 (0.07%) | 7 (0.03%) | 0 (0.00%) | | |
| Ovarian cancer | 27 (0.05%) | 1 (0.02%) | 12 (0.05%) | 12 (0.05%) | 2 (0.09%) | | |
| Endometrial cancer ⁶ | 15 (0.03%) | 0 (0.00%) | 6 (0.03%) | 9 (0.04%) | 0 (0.00%) | | |
| Colorectal cancer | 81 (0.15%) | 3 (0.06%) | 20 (0.09%) | 56 (0.24%) | 2 (0.09%) | | |
| Other cancer ⁷ | 460 (0.87%) | 24 (0.45%) | 170 (0.77%) | 247 (1.06%) | 19 (0.88%) | | |
| Total cancer | 681 (1.29%) | 47 (0.88%) | 278 (1.26%) | 335 (1.43%) | 21 (0.97%) | | |
| Fractures | | | | | | | |
| Hip fracture | 307 (0.58%) | 6 (0.11%) | 40 (0.18%) | 222 (0.95%) | 39 (1.80%) | | |
| Deaths | | | | | | | |
| Cardiovascular deaths | 806 (1.52%) | 14 (0.26%) | 130 (0.59%) | 532 (2.27%) | 130 (6.00%) | | |
| Cancer deaths | 399 (0.75%) | 16 (0.30%) | 121 (0.55%) | 242 (1.03%) | 20 (0.92%) | | |
| Other known cause | 822 (1.55%) | 16 (0.30%) | 135 (0.61%) | 556 (2.38%) | 115 (5.31%) | | |
| Unknown cause | 47 (0.09%) | 2 (0.04%) | 6 (0.03%) | 29 (0.12%) | 10 (0.46%) | | |
| Not yet adjudicated | 178 (0.34%) | 8 (0.15%) | 35 (0.16%) | 124 (0.53%) | 11 (0.51%) | | |
| Total death | 2252 (4.25%) | 56 (1.05%) | 427 (1.94%) | 1483 (6.34%) | 286 (13.20%) | | |

¹ CHD includes clinical MI and CHD death.

² CHD death includes definite and possible CHD death.

³ Definite or possible decompensated heart failure adjudicated by UNC.

⁴ Coronary disease includes clinical MI, CHD death, UNC heart failure and CABG/PTCA.

⁵ Total CVD does not include aortic aneurysm or valvular heart disease.

⁶ Only women without a baseline hysterectomy are used to compute the annual rates of endometrial cancer.

⁷ Only one report of "other cancer" is counted per woman; however, the first of each type is adjudicated. Excludes non-melanoma skin cancer.

Table 6.4 Verified Outcomes (Annualized Percentages) <u>After Long Life Study (LLS) Visit</u> by <u>Race/Ethnicity</u>¹ for <u>LLS Participants</u>

| | Race/Ethnicity Non-Hispanic | | | | | | | |
|---|--------------------------------|------------------|-------|-------------------|------|-------------------|----|---------------------|
| Outcomes | | spanic/ atina | Black | African erican | | Hispanic Vhite | | ore than ne Race |
| Number enrolled | _ | 1277 | | 2483 | | 3978 | | 110 |
| Mean follow-up (months) after | | | _ | | | ,,,, | | 110 |
| LLS visit | | 86.8 | 8 | 33.0 | , | 77.2 | | 77.3 |
| Cardiovascular | | | | | | | | |
| CHD ² | 47 | (0.51%) | 104 | (0.61%) | 300 | (1.17%) | 7 | (0.99%) |
| CHD death ³ | 26 | (0.28%) | 59 | (0.34%) | 198 | (0.77%) | 5 | (0.71%) |
| Clinical MI | 31 | (0.34%) | 60 | (0.35%) | 183 | (0.71%) | 3 | (0.42%) |
| CABG/PTCA | 22 | (0.24%) | 48 | (0.28%) | 125 | (0.49%) | 1 | (0.14%) |
| Carotid artery disease | 1 | (0.01%) | 7 | (0.04%) | 17 | (0.07%) | 0 | (0.00%) |
| Heart failure, UNC ⁴ | 43 | (0.47%) | 113 | (0.66%) | 350 | (1.37%) | 6 | (0.85%) |
| Stroke | 51 | (0.55%) | 119 | (0.69%) | 274 | (1.07%) | 9 | (1.27%) |
| PAD | 6 | (0.06%) | 25 | (0.15%) | 37 | (0.14%) | 1 | (0.14%) |
| DVT | 17 | (0.18%) | 70 | (0.41%) | 97 | (0.38%) | 2 | (0.28%) |
| Pulmonary embolism | 13 | (0.14%) | 61 | (0.36%) | 74 | (0.29%) | 5 | (0.71%) |
| Coronary disease ⁵ | 72 | (0.78%) | 165 | (0.96%) | 491 | (1.92%) | 9 | (1.27%) |
| DVT/PE | 25 | (0.27%) | 110 | (0.64%) | 132 | (0.52%) | 5 | (0.71%) |
| Aortic aneurysm | 2 | (0.02%) | 7 | (0.04%) | 10 | (0.04%) | 0 | (0.00%) |
| Valvular heart disease | 22 | (0.24%) | 17 | (0.10%) | 129 | (0.50%) | 3 | (0.42%) |
| Total cardiovascular disease ⁶ | 118 | (1.28%) | 285 | (1.66%) | 746 | (2.91%) | 18 | (2.54%) |
| Cancer | | | | | | | | |
| Breast cancer | 32 | (0.35%) | 77 | (0.45%) | 88 | (0.34%) | 2 | (0.28%) |
| Invasive breast cancer | 29 | (0.31%) | 66 | (0.38%) | 79 | (0.31%) | 2 | (0.28%) |
| In situ breast cancer | 4 | (0.04%) | 15 | (0.09%) | 10 | (0.04%) | 0 | (0.00%) |
| Ovarian cancer | 3 | (0.03%) | 7 | (0.04%) | 17 | (0.07%) | 0 | (0.00%) |
| Endometrial cancer | 2 | (0.02%) | 3 | (0.02%) | 10 | (0.04%) | 0 | (0.00%) |
| Colorectal cancer | 7 | (0.08%) | 19 | (0.11%) | 54 | (0.21%) | 1 | (0.14%) |
| Other cancer | 53 | (0.57%) | 129 | (0.75%) | 263 | (1.03%) | 12 | (1.69%) |
| Total cancer | 91 | (0.98%) | 210 | (1.22%) | 366 | (1.43%) | 11 | (1.55%) |
| Fractures | | | | | | | | |
| Hip Fracture | 20 | (0.22%) | 22 | (0.13%) | 263 | (1.03%) | 2 | (0.28%) |
| Deaths | | | | | | | | |
| Cardiovascular deaths | 62 | (0.67%) | | (1.01%) | | (2.18%) | 11 | (1.55%) |
| Cancer deaths | 39 | (0.42%) | 119 | (0.69%) | 233 | (0.91%) | 7 | (0.99%) |
| Other known cause | 76 | (0.82%) | 134 | (0.78%) | 597 | (2.33%) | 13 | (1.83%) |
| Unknown cause | 2 | (0.02%) | 12 | (0.07%) | 30 | (0.12%) | 3 | (0.42%) |
| Not yet adjudicated | 10 | (0.11%) | 49 | (0.29%) | 117 | (0.46%) | 2 | ` / |
| Total death | 189 | (2.05%) | 487 | (2.83%) | 1536 | (6.00%) | 36 | (5.08%) |

¹ Long Life Study participants were selected from MRC participants which includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines. Outcome counts for American Indian/Alaska Native (n=4), Asian or Native Hawaiian/Other Pacific Islander (n=1) and Other/Not Reported (n=22) race/ethnicities are not displayed due to small numbers. See Table 6.3 for total counts of adjudicated outcomes.

² CHD includes clinical MI and CHD death.

³ CHD death includes definite and possible CHD death.

⁴ Definite or possible decompensated heart failure adjudicated by UNC

⁵ Coronary disease includes clinical MI, CHD death, UNC heart failure and CABG/PTCA.

⁶ Total CVD does not include aortic aneurysm or valvular heart disease.

Table 6.5
Self-Reported Outcomes (Annualized Percentages) <u>After Long Life Study (LLS) Visit</u>
by <u>Age at Visit</u> and <u>Race/Ethnicity</u>¹ for <u>LLS Participants</u> Who Did Not Report a Prevalent Condition at Baseline

| | | Age at Visit | | | |
|---|--------------|--------------|-------------|-------------|-------------|
| Outcome | Total | 63-69 | 70-79 | 80-89 | ≥ 90 |
| Number enrolled | 7875 | 723 | 3052 | 3688 | 412 |
| Mean follow-up (months) after LLS visit | 78.1 | 84.8 | 83.4 | 74.2 | 62.1 |
| Angina (hospitalized) | 465 (0.91%) | 34 (0.67%) | 153 (0.72%) | 257 (1.13%) | 21 (0.98%) |
| Diabetes (treated) | 703 (1.37%) | 66 (1.29%) | 308 (1.45%) | 304 (1.33%) | 25 (1.17%) |
| Hysterectomy | 94 (0.18%) | 14 (0.27%) | 52 (0.25%) | 28 (0.12%) | 0 (0.00%) |
| Osteoarthritis | 903 (1.76%) | 99 (1.94%) | 403 (1.90%) | 362 (1.59%) | 39 (1.83%) |
| Intestinal polyps | 503 (0.98%) | 99 (1.94%) | 280 (1.32%) | 120 (0.53%) | 4 (0.19%) |
| Lupus | 37 (0.07%) | 4 (0.08%) | 19 (0.09%) | 13 (0.06%) | 1 (0.05%) |
| Pills for hypertension | 613 (1.20%) | 72 (1.41%) | 254 (1.20%) | 262 (1.15%) | 25 (1.17%) |
| COPD | 793 (1.55%) | 68 (1.33%) | 299 (1.41%) | 399 (1.75%) | 27 (1.27%) |
| Macular degeneration | 1168 (2.28%) | 55 (1.08%) | 379 (1.79%) | 660 (2.89%) | 74 (3.47%) |
| Dementia | 1116 (2.18%) | 32 (0.63%) | 262 (1.23%) | 718 (3.15%) | 104 (4.88%) |
| Parkinson's disease | 110 (0.21%) | 8 (0.16%) | 45 (0.21%) | 53 (0.23%) | 4 (0.19%) |

| | Race/Ethnicity | | | | | | | | |
|---|----------------|-----------|-----|--------------------------|-----------------------|-----------------|--|--|--|
| Outcome | Hispan | ic/Latina | | Hispanic can American | Non-Hispanic White | | | | |
| Number enrolled Mean follow-up (months) after LLS visit | 1277 | | | 2483 | 3978 | | | | |
| Angina (hospitalized) | c | (0.66%) | 144 | 80.1 144 (0.87%) | | 75.1 (1.01%) | | | |
| Diabetes (treated) | 117 | (1.31%) | 237 | (1.43%) | 251 333 | (1.34%) | | | |
| Hysterectomy | 21 | (0.24%) | 31 | (0.19%) | 41 | (0.16%) | | | |
| Osteoarthritis | 143 | (1.60%) | 295 | (1.78%) | 453 | (1.82%) | | | |
| Intestinal polyps | 120 | (1.34%) | 207 | (1.25%) | 172 | (0.69%) | | | |
| Lupus | 8 | (0.09%) | 12 | (0.07%) | 17 | (0.07%) | | | |
| Pills for hypertension | 131 | (1.47%) | 135 | (0.81%) | 335 | (1.35%) | | | |
| COPD | 114 | (1.28%) | 251 | (1.51%) | 420 | (1.69%) | | | |
| Macular degeneration | 167 | (1.87%) | 274 | (1.65%) | 708 | (2.84%) | | | |
| Dementia | 135 | (1.51%) | 243 | (1.47%) | 720 | (2.89%) | | | |
| Parkinson's disease | 20 | (0.22%) | 32 | (0.19%) | 56 | (0.22%) | | | |

¹ Long Life Study participants were selected from MRC participants which includes all WHI Hormone Trial participants and all Non-Hispanic Black/African American and Hispanic/Latina participants (identified from race/ethnicity collected on Form 2 at baseline) from the CT and OS. However, race/ethnicity is presented using the imputed Form 41 data and following the WHI Race/Ethnicity Task Force guidelines. Outcome counts for American Indian/Alaska Native (n=4), Asian or Native Hawaiian/Other Pacific Islander (n=1) and Other/Not Reported (n=22) race/ethnicities are not displayed due to small numbers.

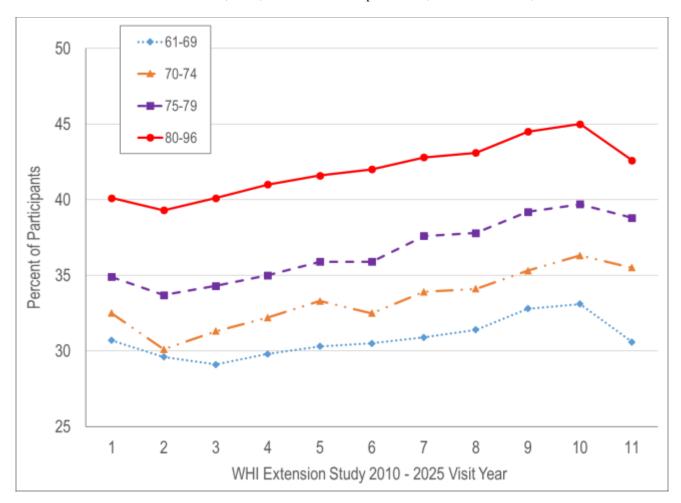
Table 7.1 Number of Falls per Participant During Extension Study 2010-2025 by <u>Visit Year</u>

Data as of: March 6, 2021; Events between September 30, 2010 and March 6, 2021

| | Extension Study 2010-2025 Visit Year | | | | | | | | | | |
|-----------------|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | (N=75,553) | (N=83,161) | (N=80,724) | (N=76,931) | (N=74,443) | (N=68,441) | (N=65,622) | (N=62,146) | (N=59,219) | (N=52,833) | (N=4,793) |
| Number of falls | % | % | % | % | % | % | % | % | % | % | % |
| None | 64.8 | 66.2 | 65.7 | 65.0 | 64.3 | 64.5 | 63.6 | 63.5 | 62.3 | 61.8 | 63.4 |
| 1 | 20.9 | 19.7 | 19.7 | 20.2 | 20.4 | 20.2 | 20.6 | 20.8 | 21.0 | 21.4 | 20.7 |
| 2 | 9.5 | 9.0 | 9.3 | 9.4 | 9.5 | 9.3 | 9.6 | 9.5 | 9.9 | 9.8 | 9.0 |
| ≥3 | 4.9 | 5.1 | 5.3 | 5.4 | 5.7 | 6.0 | 6.2 | 6.3 | 6.9 | 6.9 | 7.0 |

Figure 7.1
Percent of Participants with Falls During Extension Study 2010-2025
by Visit Year and Age at the Start of Extension Study 2010-2025

Data as of: March 6, 2021; Events between September 30, 2010 and March 6, 2021



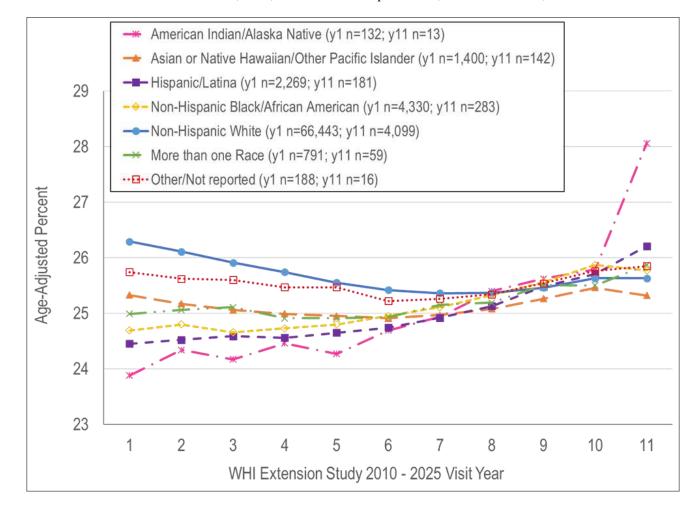
WHI, Annual Progress Report

Figure 7.2

Age-Adjusted¹ Percent of Participants with Falls During Extension Study 2010-2025

by Visit Year and Race/Ethnicity

Data as of: March 6, 2021; Events between September 30, 2010 and March 6, 2021



¹ Age at the start of Extension Study 2010-2025. Percentages for each race/ethnicity are age-adjusted to the overall age distribution at each time point.

Table 8.1 WHI Manuscript Stages

| Stage # | Definition | Number |
|---------|---|--------|
| 12* | Published | 2080 |
| 11 | In press / accepted by journal | 9 |
| 10 | Submitted to journal | 17 |
| 9 | Final manuscript approved by P&P Committee | 350 |
| 8 | Final manuscript submitted to P&P Committee | 35 |
| 7 | Draft manuscript | 27 |
| 6 | Analysis completed | 40 |
| 5 | Analysis in progress | 48 |
| 4 | Analysis proposed | 7 |
| 2 & 3 | Approved proposal | 1250 |
| Total | | 3,863 |

^{*}Only Stage 12 papers published between March 2020 and February 2021 are included in Table 8.2

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|--|--|-------|---|---------|
| 1506 | Cardiovascular outcomes in relation to antihypertensive medication use in women with and without cancer: Results from the Women's Health Initiative | Reding, Aragaki, Cheng, Wassertheil- Smoller, Barac, Chubak, Limacher, Hundley, D'Agostino, Vitolins, Habel, Chow, Jackson, Chen, Morgenroth, Barrington, et al. | Gen | Oncologist. 2020 Apr 6. doi: 10.1634/theoncologist.2019-0977. [Epub ahead of print] | |
| 1755 | Reproductive history and osteoarthritis in the Women's Health Initiative | Wang, Zawadzki, Hedlin, LeBlanc, Budrys, Van Horn, Gass, Westphal, Stefanick | OS | Scand J Rheumatol. 2020 Aug 6:1-10. doi: 10.1080/03009742.2020.1751 271. Online ahead of print. | |
| 1945 | Chocolate candy and incident invasive cancer risk in the Women's Health Initiative: An observational prospective analysis | Greenberg, Neuhouser, Tinker, Lane, Paskett, Van Horn, Wassertheil- Smoller, Shikany, Qi, Manson, Sealy- Jefferson | OS | J Acad Nutr Diet. 2020 Aug 3:S2212-2672(20)30558-X. doi: 10.1016/j.jand.2020.06.014. Online ahead of print. | |
| 2207 | Relationship between dietary magnesium intake and incident heart failure among older women: The WHI | Wu, Huang, Taveira, Roberts, Martin, Wellenius, Johnson, Manson, Liu, Eaton | OS | J Am Heart Assoc. 2020 Apr 7;9(7):e013570. doi: 10.1161/JAHA.119.013570. Epub 2020 Mar 20. | |
| 2261 | Dietary Intakes of Women's Health Initiative Long Life Study Participants Falls Short of the Dietary Reference Intakes | Beasley, Rillamas-Sun, Tinker, Wylie-Rosett, Mossavar-Rahmani, Datta, Caan, LaCroix | Gen | * | |
| 2306 | The association between cigarette smoking, cancer screening, and cancer stage: a prospective study of the women's health initiative observational cohort | Tang, Stefanick, Ally, Kurian, Tang, David, Chlebowski, Hou, Lane, Patel, Tindle | OS | • | |
| 2422 | The Women's Health Initiative Estrogen-Alone Trial had differential disease and medical expenditure consequences across age groups | Donneyong, Chang, Roth, Guilds, Ankrah, Najafzadeh, Xu, Chlebowski, Margolis, Manson | Gen | Menopause. 2020 Mar 2. doi: 10.1097/GME.000000000000000000000000000000000000 | |
| 2532 | Metabolic signatures associated with western and prudent dietary patterns in women | Chandler, Balasubramanian, Paynter, Giulianini, Fung, Tinker, Snetselaar, Liu, Eaton, Tobias, Tabung, Manson, Giovannucci, Clish, Rexrode | Gen | Am J Clin Nutr. 2020 Jun 10:nqaa131. doi:10.1093/ajcn/nqaa131. Online ahead of print | BAA24 |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|---|---|-------|---|---------|
| 2632 | Rural-urban residence, stroke risk and severity in postmenopausal women: The Women's Health Initiative | Sealy-Jefferson, Roseland, Cote, Lehman, Whitsel, Booza, Simon | Gen | Womens Health Rep (New Rochelle). 2020 Sep 9;1(1):326-333. doi: 10.1089/whr.2020.0034. eCollection 2020. | AS464 |
| 2824 | Associations of number of daily eating occasions with type 2 diabetes risk in the Women's Health Initiative Dietary Modification Trial | Neuhouser, Wertheim, Perrigue, Hingle, Tinker, Shikany, Johnson, Waring, Seguin, Vitolins, Schnall, Snetselaar, Thomson | СТ | Curr Dev Nutr. 2020 Jul 21;4(8):nzaa126. doi: 10.1093/cdn/nzaa126. eCollection 2020 Aug | |
| 2850 | Heart rate, brain imaging biomarkers and cognitive impairment in older (≥63 Years) women | Haring, Liu, Rapp, Shimbo, Padula, Mozhui, Li, Espeland, Wassertheil- Smoller | CT | Am J Cardiol. 2020 May 26:S0002-9149(20)30540-3. doi: 10.1016/j.amjcard.2020.05.03 0. Online ahead of print | AS39 |
| 2884 | Associations of angiotensin-converting enzyme inhibitor or angiotensin receptor blocker use with colorectal cancer risk in the Women's Health Initiative | Brasky, Flores, Larson, Newton, Shadyab, Watanabe, Lane, Thomson, LaCroix | Gen | Cancer Epidemiol Biomarkers Prev. 2021 Feb 24:cebp.1401.2020. doi: 10.1158/1055-9965.EPI-20- 1401. Online ahead of print. | |
| 2980 | Association of sickle cell trait with incidence of coronary heart disease among african american individuals | Hyacinth, Franceschini, Seals, Irvin, Naik, Alonso, Burke, Carty, Zakai, Manson, Reiner | Gen | JAMA Netw Open. 2021 Jan 4;4(1):e2030435. doi: 10.1001/jamanetworkopen.20 20.30435 | M24, M5 |
| 2983 | Barriers to eating are associated with poor physical function in older women | Neuhouser, Hunt, Van Horn, Shikany, Stefanick, Johnson, Brunner, Cannell, Hatsu, Tinker | Gen | Prev Med. 2020 Aug 12;139:106234. doi: 10.1016/j.ypmed.2020.10623 4. Online ahead of print | |
| 3028 | Association of menopausal hormone therapy with breast cancer incidence and mortality during long-term follow-up of the Women's Health Initiative Randomized Clinical Trials | Chlebowski, Anderson, Aragaki, Manson, Stefanick, Pan, Barrington, Kuller, Simon, Lane, Johnson, Rohan, Gass, Cauley, Paskett, Sattari, et al. | СТ | JAMA. 2020 Jul 28;324(4):369-380. doi: 10.1001/jama.2020.9482 | |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|---|--|-------|--|--|
| 3059 | Multi-ethnic genome-wide association study of decomposed cardioelectric phenotypes illustrates strategies to identify and characterize evidence of shared genetic effects for complex traits | Baldassari, Sitlani, Highland, Arking, Buyske, Whitsel, Reiner, Kooperberg, Avery, Soliman, North, Peters | OS | Circ Genom Precis Med. 2020 Aug;13(4):e002680. doi: 10.1161/CIRCGEN.119.0026 80. Epub 2020 Jun 30. | AS224, AS264, BAA3, M13, M5, W63 |
| 3074 | Metabolomic effects of hormone therapy and associations with coronary heart disease among postmenopausal women | Balasubramanian, Demler, Paynter, Sheehan, Liu, Manson, Clish, Rexrode | Gen | Circ Genom Precis Med. 2020 Nov 3. doi: 10.1161/CIRCGEN.119.0029 77. Online ahead of print. | BAA24 |
| 3100 | Association between post-stroke disability and 5-year hip-fracture risk: The Women's Health Initiative | Northius, Crandall, Margolis, Diem, Ensrud, Lakshminarayan | Gen | J Stroke Cerebrovasc Dis. 2020 Aug;29(8):104976. doi: 10.1016/j.jstrokecerebrovasdi s.2020.104976. Epub 2020 Jun 10. | |
| 3164 | Associations of social, physical, and financial factors with diet quality among older, community-dwelling women | Shikany, Manson, Shadyab, Garcia, Lewis, Neuhouser, Tinker, Beasley, Beresford, Zaslavsky, Vitolins, Sealy- Jefferson, Bae | Gen | Menopause. 2020 Mar 2. doi: 10.1097/GME.000000000000000000000000000000000000 | W64 |
| 3166 | Association between prediagnosis depression and mortality among postmenopausal women with colorectal cancer | Liang, Hendryx, Qi, Lane, Luo | Gen | PLoS One. 2020 Dec 31;15(12):e0244728. doi: 10.1371/journal.pone.024472 8. eCollection 2020. | AS370 |
| 3181 | Risk of metabolic syndrome and metabolic phenotypes in relation to biomarker-calibrated estimates of energy and protein intakes: an investigation from the Women's Health Initiative | Vasbinder, Tinker, Neuhouser, Pettinger, Hale, Di, Zaslavsky, Hayman, Liu, Wang, Scherman, Stefanick, Barrington, Eaton, Reding, Nicklas, et al. | OS | Am J Clin Nutr. 2020 Dec 31:nqaa334. doi: 10.1093/ajcn/nqaa334. Online ahead of print. | W64 |
| 3187 | Prospective association of obstructive sleep apnea risk factors with heart failure and its subtypes in postmenopausal women: The Women's Health Initiative | Koo, Gorsi, Manson, Allison, LaMonte, Roberts, Shadyab, Eaton | Gen | J Clin Sleep Med. 2020 Mar 25. doi: 10.5664/jcsm.8438. [Epub ahead of print] | |
| 3221 | Diet quality indices and risk of metabolic syndrome among postmenopausal women of Mexican ethnic descent in the Women's Health Initiative Observational Study | Santiago-Torres, Shi, Tinker, Lampe, Allison, Barrington, Crane, Garcia, Hayden, Isasi, Valdiviezo, Martin, Neuhouser | Gen | Nutr Healthy Aging. 2020 Nov 3;5(4):261-272. doi: 10.3233/NHA-190076. | |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|--|--|-------|--|-----------------------|
| 3260 | Association between selenium intake and breast cancer risk: Results from the Women's Health Initiative | Guo, Hendryx, Liang, Manson, He, Vitolins, Li, Luo | Gen | Breast Cancer Res Treat. 2020 Jun 30. doi: 10.1007/s10549-020-05764- 6. Online ahead of print. | |
| 3266 | Risk of breast cancer associated with estrogen DNA adduct biomarker | Reding, Han, Whittington, Langford, Rohan, Chlebowski, Cheng, Ho, Lee, Barrington, Tinker | Gen | Cancer Epidemiol Biomarkers Prev. 2020 Oct;29(10):2096-2099. doi: 10.1158/1055-9965.EPI-20- 0133. Epub 2020 Jul 22. | AS321 |
| 3309 | Racial/Ethnic disparities in physical function before and after total knee arthroplasty among women in the United States | Cavanaugh, Rauh, Thompson, Alcaraz, Mihalko, Bird, Corbie-Smith, Rosal, Li, Shadyab, Gilmer, LaCroix | Gen | JAMA Netw Open. 2020 May 1;3(5):e204937. doi: 10.1001/jamanetworkopen.20 20.4937 | W35 |
| 3312 | Methylome-wide association study of central adiposity implicates genes involved in immune and endocrine systems | Justice, Chittoor, Gondalia, Melton, Lim, Hou, Whitsel, North, Baccarelli, Conneely | CT | Epigenomics. 2020 Sep 9. doi: 10.2217/epi-2019-0276. Online ahead of print. | AS315 |
| 3317 | Sleep characteristics and risk of ovarian cancer among postmenopausal women | Liang, Harris, Hendryx, Shadyab, Hale, Li, Crane, Cespedes Feliciano, Stefanick, Luo | Gen | Cancer Prev Res (Phila). 2020 Sep 11:canprevres.0174.2020. doi: 10.1158/1940- 6207.CAPR-20-0174. Online ahead of print. | |
| 3341 | Insulin resistance and breast cancer incidence and mortality in postmenopausal women in the Women's Health Initiative | Pan, Goodwin, Mortimer, Nelson, Gunter, Rohan, Vitolins, Adams- Campbell, Ho, Cheng, Manson | Gen | Cancer. 2020 Jun 12. doi: 10.1002/cncr.33002. Online ahead of print. | |
| 3360 | Association of cardiovascular health and epigenetic age acceleration | Pottinger, Khan, Zheng, Zhang, Tindle, Allison, Wells, Shadyab, Nassir, Martin, Manson, Greenland, Baccarelli, Whitsel, Hou | СТ | Clin Epigenetics. 2021 Feb 25;13(1):42. doi: 10.1186/s13148-021-01028-2. | AS315 |
| 3369 | Erythrocyte omega-3 index, ambient fine particle exposure and brain aging | Chen, Xun, Kaufman, Hayden, Espeland, Whitsel, Serre, Vizuete, Orchard, Harris, Wang, Chui, Chen, He | WHIMS | Neurology. 2020 Jul 15:10.1212/WNL.000000000 0010074. doi: 10.1212/WNL.00000000001 0074. Online ahead of print | AS183, AS252, AS39 |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|---|---|-------|---|------------|
| 3389 | The association of methotrexate, sulfasalazine, and hydroxychloroquine use with fracture in postmenopausal women with rheumatoid arthritis: Findings from the Women's Health Initiative | Carbone, Vasan, Elam, Gupta, Tolaymat, Crandall, Wactawski- Wende, Johnson | Gen | JBMR Plus. 2020 Aug 18;4(10):e10393. doi: 10.1002/jbm4.10393. eCollection 2020 Oct. | |
| 3433 | Protein intake by source and breast cancer incidence and mortality: The Women's Health Initiative | Chlebowski, Mortimer, Neuhouser, Prentice, Van Horn, Rohan, Manson, Lane | Gen | JNCI Cancer Spectr. 2020 Nov 7;4(6):pkaa101. doi: 10.1093/jncics/pkaa101. eCollection 2020 Dec. | |
| 3449 | Association of prediagnostic frailty, change in frailty status, and mortality after cancer diagnosis in the Women's Health Initiative | Cespedes Feliciano, Hohensee, Rosko, Anderson, Paskett, Zaslavsky, Wallace, Caan | OS | JAMA Netw Open. 2020 Sep 1;3(9):e2016747. doi: 10.1001/jamanetworkopen.20 20.16747. | AS370, W35 |
| 3453 | Association of sedentary time and incident heart failure hospitalization in postmenopausal women | LaMonte, Larson, Manson, Bellettiere, Lewis, Bea, Johnson, LaCroix, Klein, Noel, Stefanick, Wactawski-Wende, Eaton | Gen | Circ Heart Fail. 2020 Nov 24:CIRCHEARTFAILURE12 0007508. doi: 10.1161/CIRCHEARTFAILU RE.120.007508. Online ahead of print. | AS510 |
| 3457 | Sociodemographic and metabolic risk characteristics associated with metabolic weight categories in the Women's Health Initiative (WHI) | Hsu, Ames, Xie, Peterson, Garcia, Going, Wong, Anton-Culver | Gen | Cardiovasc Endocrinol Metab. 2020 May 15;9(2):42- 48. doi: 10.1097/XCE.000000000000 0194. eCollection 2020 Jun | |
| 3460 | Does the Hispanic Mortality Advantage Vary by Marital Status Among Postmenopausal Women in the Women's Health Initiative? | Flores, Ruiz, Butler, Sbarra, Garcia, Kohler, Crane, Corbie-Smith, Benavente, Kroenke, Saquib, Thomson | OS | Ann Behav Med. 2021 Jan 15:kaaa113. doi: 10.1093/abm/kaaa113. Online ahead of print | |
| 3464 | Alignment of dietary patterns with the Dietary Guidelines for Americans 2015-2020 and risk of all- cause and cause-specific mortality in the Women's Health Initiative Observational Study | George, Reedy, Feliciano, Aragaki, Caan, Kahle, Manson, Rohan, Snetselaar, Tinker, Van Horn, Neuhouser | OS | Am J Epidemiol. 2020 Dec 16:kwaa268. doi: 10.1093/aje/kwaa268. Online ahead of print. | |
| 3494 | The carbon isotope ratios of serum amino acids in combination with participant characteristics can be used to estimate added sugar intake in a controlled feeding study of US postmenopausal women | O'Brien, Yun, Tinker, Neuhouser, Schoeller, Mossavar-Rahmani, Snetselaar, Van Horn, Eaton, Prentice, Lampe | Gen | J Nutr. 2020 Jul 25:nxaa195. doi: 10.1093/jn/nxaa195. Online ahead of print. | AS423 |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|--|---|-------|---|---------|
| 3508 | Postdiagnosis physical activity: Association with long-term fatigue and sleep disturbance in older adult breast cancer survivors | Vasbinder, Reding, Wang, Han, Zaslavsky, Langford, Cespedes Feliciano, Barrington, Paskett | Gen | Clin J Oncol Nurs. 2020 Aug 1;24(4):381-391. doi: 10.1188/20.CJON.381-391. | AS370 |
| 3509 | Serial bone density measurement and incident fracture risk discrimination in postmenopausal women | Crandall, Larson, Wright, Laddu-Patel, Stefanick, Kaunitz, Watts, Wactawski- Wende, Womack, Johnson, Carbone, Jackson, Ensrud | Gen | JAMA Intern Med. Published online July 27, 2020. doi:10.1001/jamainternmed.2 020.2986 | |
| 3514 | PM 2.5 associated with gray matter atrophy reflecting increased Alzheimers risk in older women | Younan, Wang, Casanova, Barnard, Gaussoin, Saldana, Petkus, Resnick, Manson, Vizuete, Henderson, Sachs, Salinas, Gatz, Espeland, Serre, et al. | СТ | Neurology. 2020 Nov 18:10.1212/WNL.000000000 0011149. doi: 10.1212/WNL.00000000001 1149. Online ahead of print. | AS252 |
| 3526 | The association between weight-promoting medication use and weight gain in postmenopausal women: findings from the Women's Health Initiative | Stanford, Cena, Biino, Umoren, Jimenez, Freeman, Shadyab, Wild, Womack, Banack, Manson | Gen | Menopause. 2020 Jul 13. doi: 10.1097/GME.000000000000000000000000000000000000 | |
| 3537 | Social support, social network size, social strain, stressful life events, and coronary heart disease in women with type 2 diabetes: A cohort study based on the Women's Health Initiative | Jonasson, Hendryx, Luo, Womack, Valdiviezo, Shadyab, Sealy-Jefferson, Liu, Lin, Lawesson, Kroenke, Kelley, Garcia, Cene, Santosa | Gen | Diabetes Care. 2020 Jun 4;dc192065. doi: 10.2337/dc19-2065. Online ahead of print. | |
| 3558 | Physical activity and risk of bladder cancer among postmenopausal women | Li, Hendryx, Xun, He, Shadyab, Lane, Nassir, Stefanick, Wactawski-Wende, Pal, Luo | Gen | Int J Cancer. 2020 May 10. doi: 10.1002/ijc.33042. Online ahead of print. | |
| 3560 | Cardio-metabolic risk factors and survival after cancer in the Women's Health Initiative | Simon, Hastert, Barac, Banack, Caan, Chlebowski, Foraker, Hovsepyan, Liu, Luo, Manson, Neuhouser, Okwuosa, Pan, Ruterbusch, Shadyab, et al. | Gen | Cancer. 2020 Nov 5. doi: 10.1002/cncr.33295. Online ahead of print. | AS370 |
| 3562 | Prevalence and penetrance of pathogenic variants in cancer susceptibility genes among women with post- menopausal breast cancer in the Women's Health Initiative | Kurian, Bernhisel, Larson, Caswell-Jin, Shadyab, Ochs-Balcom, Stefanick | Gen | JAMA .2020 Mar 10;323(10):995-997.doi: 10.1001/jama.2020.0229. | AS508 |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|---|--|-------|---|---------|
| 3592 | The association between type 2 diabetes mellitus and bladder cancer risk among postmenopausal women | Li, Hendryx, Xun, He, Shadyab, Qi, Pan, Luo | Gen | Cancer Causes Control. 2020 May;31(5):503-510. doi: 10.1007/s10552-020-01294- 0. Epub 2020 Mar 19. | |
| 3597 | Association of adverse pregnancy outcomes with risk of atherosclerotic cardiovascular disease in postmenopausal women | Sondergaard, Hlatky, Stefanick, Vittinghoff, Nah, Allison, Gemmill, Van Horn, Park, Salmoirago-Blotcher, Sattari, Sealy-Jefferson, Shadyab, Valdiviezo, Manson, Parikh, et al. | Gen | JAMA Cardiol. 2020 Sep 16:e204097. doi: 10.1001/jamacardio.2020.409 7. Online ahead of print. | |
| 3609 | Association of major dietary protein sources with all- cause and cause-specific mortality: Prospective cohort study | Sun, Liu, Snetselaar, Wallace, Shadyab, Kroenke, Haring, Howard, Shikany, Valdiviezo, Bao | Gen | J Am Heart Assoc. 2021 Feb;10(5):e015553. doi: 10.1161/JAHA.119.015553. Epub 2021 Feb 24. | |
| 3610 | Resilience and CVD-protective health behaviors in older women: Examining racial and ethnic differences in a cross-sectional analysis of the Women's Health Initiative Extension Study | Springfield, Qin, Hedlin, Eaton, Rosal, Taylor, Staudinger, Stefanick | OS | Nutrients. 2020 Jul 16;12(7):2107. doi: 10.3390/nu12072107. | |
| 3612 | Dual-outcome intention-to-treat analyses in the Women's Health Initiative Randomized Controlled Hormone Therapy Trials | Prentice, Aragaki, Chlebowski, Zhao, Anderson, Rossouw, Wallace, Banack, Shadyab, Qi, Snively, Gass, Manson | CT | Am J Epidemiol. 2020 Sep 1;189(9):972-981. doi: 10.1093/aje/kwaa033. | |
| 3640 | Associations of accelerometer-measured physical activity and physical activity-related cancer incidence in older women: results from the OPACH Study | Parada Jr., McDonald, Bellettiere, Evenson, LaMonte, LaCroix | OS | Br J Cancer. 2020 Mar 5. doi: 10.1038/s41416-020- 0753-6. [Epub ahead of print] | AS286 |
| 3652 | The severity of vasomotor symptoms and number of menopausal symptoms in postmenopausal women and select clinical health outcomes in the Women's Health Initiative Calcium and Vitamin D randomized clinical trial | Nudy, Jiang, Stefanick, Robbins, Schnatz, Wild, Wactawski-Wende, Shadyab, Manson, LeBlanc | СТ | Menopause. 2020 Nov;27(11):1265-1273. doi: 10.1097/GME.000000000000 1667. | |
| 3658 | Healthy Lifestyle and Clonal Hematopoiesis of Indeterminate Potential: Results From the Women's Health Initiative | Haring, Reiner, Liu, Tobias, Whitsel, Berger, Desai, Wassertheil-Smoller, LaMonte, Hayden, Bick, Natarajan, Stefanick, Simon, Eaton, Kooperberg, et al. | Gen | J Am Heart Assoc. 2021 Feb;10(5):e018789. doi: 10.1161/JAHA.120.018789. Epub 2021 Feb 23 | AS564 |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|--|---|-------|--|-------------------------------------|
| 3660 | Healthy lifestyle and risk of incident heart failure with preserved and reduced ejection fraction in postmenopausal women: The Women's Health Initiative Study | Noel, LaMonte, Roberts, Pearlman, Banack, Allison, Shadyab, Haring, Laddu-Patel, Martin, Nguyen, Manson, Eaton | Gen | Prev Med. 2020 May 28;138:106155. doi: 10.1016/j.ypmed.2020.10615 5. Online ahead of print. | |
| 3662 | Walking volume and speed are inversely associated with incidence of treated hypertension in postmenopausal women | Miller, Wactawski-Wende, LaMonte, Manson, Haring, Hovey, Laddu-Patel, Shadyab, Wild, Bea, Tinker, Martin, Garcia, Nguyen, Andrews, Eaton, et al. | Gen | Hypertension. 2020 Nov;76(5):1435-1443. doi: 10.1161/HYPERTENSIONA HA.120.15839. Epub 2020 Sep 28. | |
| 3667 | Comparison of mortality among participants of Women's Health Initiative Trials with screening- detected breast cancers vs interval breast cancers | Irvin, Zhang, Simon, Chlebowski, Luoh, Shadyab, Krok-Schoen, Tabung, Qi, Stefanick, Schedin, Jindal | CT | JAMA Netw Open. 2020 Jun 1;3(6):e207227. doi: 10.1001/jamanetworkopen.20 20.7227 | AS370 |
| 3677 | Race-specific associations of 25-hydroxyvitamin D and parathyroid hormone with cardiometabolic biomarkers among US white and black postmenopausal women | Xia, Tu, Manson, Nan, Shadyab, Bea, Cheng, Hou, Song | OS | Am J Clin Nutr. 2020 May 29;nqaa121.doi: 10.1093/ajcn/nqaa121. Online ahead of print | AS325 |
| 3715 | African ancestry and triple-negative breast cancer in the Women's Health Initiative | Jones, Pan, Chlebowski, Nelson, Kruper | Gen | Am Surg. 2020 Sep 10;3134820949518. doi: 10.1177/0003134820949518. Online ahead of print. | W35 |
| 3718 | Association of visual impairment with risk of incident dementia in a Women's Health Initiative population | Pershing, Tran, Stefanick, Henderson, Rapp, Armstrong, Chen, Espeland, Gower, Li, Shadyab, Stone | CT | JAMA Ophthalmol. 2020 Apr 16;e200959. doi: 10.1001/jamaophthalmol.202 0.0959. | AS233, AS244, AS39, AS62, W35 |
| 3730 | 40 year trends in menopausal hormone therapy use and breast cancer incidence among postmenopausal Black and White women | Chlebowski, Aragaki, Anderson, Prentice | N/A | Cancer. 2020 Mar 25. doi: 10.1002/cncr.32846. [Epub ahead of print] | |
| 3766 | The relationship of accelerometer-assessed standing time with and without ambulation and mortality: The WHI OPACH Study | Jain, Bellettiere, Glass, LaMonte, Di, Wild, Evenson, LaCroix | Gen | J Gerontol A Biol Sci Med Sci. 2021 Jan 1;76(1):77-84. doi: 10.1093/gerona/glaa227. | AS286 |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|--|--|-------|---|-------------------|
| 3786 | Smoking-by-genotype interaction in type 2 diabetes risk and fasting glucose | Wu, Franceschini, Kooperberg, Meigs, Liu | | PLoS One. 2020 May 7;15(5):e0230815. doi: 10.1371/journal.pone.023081 5. eCollection 2020. | BAA14, M13, M5 |
| 3841 | Associations of depression status with plasma levels of candidate lipid and amino acid metabolites: a meta-analysis of individual data from three independent samples of US postmenopausal women | Huang, Hankinson, Kubzansky, Balasubramanian, Manson, Shadyab, Liu | Gen | Mol Psychiatry. 2020 Aug 28. doi: 10.1038/s41380-020- 00870-9. Online ahead of print. | BAA24 |
| 3858 | Do health behaviors mediate associations between personality traits and diabetes incidence? | Luo, Chen, Tindle, Shadyab, Saquib, Hale, Garcia, Springfield, Liu, Nassir, Snetselaar, Hendryx | Gen | Ann Epidemiol. 2020 Aug 14:S1047-2797(20)30288-X. doi: 10.1016/j.annepidem.2020.08 .007. Online ahead of print. | |
| 3861 | Short physical performance battery and incident cardiovascular events among older women | Bellettiere, LaMonte, Unkart, Liles, Laddu-Patel, Manson, Banack, Seguin, Chavez, Tinker, Wallace, LaCroix | | J Am Heart Assoc. 2020 Jul 14:e016845. doi: 10.1161/JAHA.120.016845. Online ahead of print | AS286 |
| 3866 | Non-coding variants in MYH11, FZD3, and SORCS3 are associated with dementia in women | Blue, Thornton, Kooperberg, Liu, Wactawski-Wende, Manson, Kuller, Hayden, Reiner | Gen | Alzheimers Dement. 2020 Sep 23. doi: 10.1002/alz.12181. Online ahead of print. | AS564 |
| 3877 | Diurnal patterns of sedentary behavior and changes in physical function over time among older women: a prospective cohort study | Reuter, Bellettiere, Liles, Di, Sears, LaMonte, Stefanick, LaCroix, Natarajan | Gen | Int J Behav Nutr Phys Act. 2020 Jul 9;17(1):88. doi: 10.1186/s12966-020-00992- x. | AS286 |
| 3881 | Associations of coffee and tea consumption with survival to age 90 years among older women | Shadyab, Manson, Luo, Haring, Saquib, Snetselaar, Chen, Groessl, Wassertheil-Smoller, Sun, Hale, LeBoff, LaCroix | OS | J Am Geriatr Soc.2020 Apr 24. doi: 10.1111/jgs.16467.Online ahead of print. | |
| 3886 | Randomized trial evaluation of benefits and risks of menopausal hormone therapy among women aged 50-59 | Prentice, Aragaki, Chlebowski, Rossouw, Anderson, Stefanick, Wactawski-Wende, Kuller, Wallace, Johnson, Shadyab, Gass, Manson | СТ | Am J Epidemiol. 2020 Oct 7:kwaa210. doi: 10.1093/aje/kwaa210. Online ahead of print. | |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|---|--|-------|---|---------|
| 3893 | Dietary cholesterol and egg intake in relation to incident cardiovascular disease and all-cause and cause-specific mortality in postmenopausal women | Chen, Chen, Mossavar-Rahmani, Kamensky, Shadyab, Haring, Wild, Silver, Kuller, Sun, Saquib, Howard, Snetselaar, Neuhouser, Allison, Van Horn, et al. | Gen | Am J Clin Nutr. 2020 Dec 17;nqaa353. doi: 10.1093/ajcn/nqaa353. Online ahead of print. | |
| 3897 | Associations between plasma choline metabolites and genetic polymorphisms in one-carbon metabolism in postmenopausal women: The Women's Health Initiative Observational Study | Ilozumba, Cheng, Neuhouser, Miller, Beresford, Duggan, Toriola, Song, Zheng, Bailey, Shadyab, Liu, Malysheva, Caudill, Ulrich | OS | J Nutr. 2020 Sep 16:nxaa266. doi: 10.1093/jn/nxaa266. Online ahead of print. | AS195 |
| 3900 | Pre-diagnostic plasma lipid levels and the risk of amyotrophic lateral sclerosis | Bjornevik, O'Reilly, Furtado, Kolonel, Le Marchand, McCullough, Paganoni, Schwarzschild, Shadyab, Manson, Ascherio | Gen | Amyotroph Lateral Scler Frontotemporal Degener. 2020 Sep 28:1-11. doi: 10.1080/21678421.2020.1822 411. Online ahead of print. | AS402 |
| 3925 | Lipoprotein(a) levels and risk of abdominal aortic aneurysm in the Women's Health Initiative | Chou, Pettinger, Haring, Mell, Hlatky, Wactawski-Wende, Allison, Wild, Shadyab, Wallace, Snetselaar, Eagleton, Conrad, Liu | Gen | J Vasc Surg. 2020 Aug 31:S0741-5214(20)31908-X. doi: 10.1016/j.jvs.2020.07.106. Online ahead of print. | W35 |
| 3974 | Can dietary self-reports usefully complement blood concentrations for estimation of micronutrient intake and chronic disease associations? | Prentice, Pettinger, Neuhouser, Tinker, Huang, Zheng, Manson, Mossavar- Rahmani, Anderson, Lampe | Gen | Am J Clin Nutr. 2020 Mar 4. pii: nqaa034. doi: 10.1093/ajcn/nqaa034. [Epub ahead of print] | AS498 |
| 3987 | Functional informed genome-wide interaction analysis of body mass index, diabetes and colorectal cancer risk | Xia, Nan, Nassir, Qi, Albanes, Newcomb, Sakoda, Buchanan, Berndt, Peters | Gen | Cancer Med. 2020 Mar 24. doi: 10.1002/cam4.2971. [Epub ahead of print] | AS224 |
| 3998 | Dietary manganese, plasma markers of inflammation, and the development of Type 2 Diabetes in postmenopausal women: Findings from the Women's Health Initiative | Gong, Lo, Liu, Li, Lai, Shadyab, Arcan, Snetselaar, Liu | Gen | Diabetes Care. 2020 Jun;43(6):1344-1351. doi: 10.2337/dc20-0243. Epub 2020 Apr 15. | AS132 |
| 4000 | Mendelian randomization analysis with survival outcomes | Cho, Rau, Reiner, Auer | OS | Genet Epidemiol. 2020 Sep 12. doi: 10.1002/gepi.22354. Online ahead of print. | M18 |

Table 8.2 Publications March 2020 - February 2021

| MS# | Title | Authors | Focus | Reference | Study # |
|------|--|---|-------|--|-----------|
| 4074 | Women's health initiative strong and healthy (WHISH) pragmatic physical activity intervention trial for cardiovascular disease prevention: Design and baseline characteristics | Stefanick, LaCroix, Kooperberg, King, Hlatky, Anderson | Gen | J Gerontol A Biol Sci Med Sci. 2021 Jan 12:glaa325. doi: 10.1093/gerona/glaa325. Online ahead of print. | AS360 |
| 4084 | Outdoor air pollution exposure and inter-relation of global cognitive performance and emotional distress in older women | Petkus, Chen, Wang, Beavers, Chui, Espeland, Gatz, Gruenewald, Kaufman, Manson, Resnick, Wellenius, Whitsel, Widaman, Younan | WHIMS | Environ Pollut. 2020 Dec 14;271:116282. doi: 10.1016/j.envpol.2020.11628 2. Online ahead of print. | AS252 |
| 4110 | Genome-wide association of kidney traits in Hispanics/Latinos using dense imputed whole genome sequencing data: The Hispanic Community Health Study/Study of Latinos | Qian, Kramer, Tao, Stilp, Cai, Li, Franceschini | Gen | Circ Genom Precis Med. 2020 Jun 29. doi: 10.1161/CIRCGEN.119.0028 91. Online ahead of print | AS564, M5 |
| 4144 | Premature menopause, clonal hematopoiesis, and coronary artery disease in postmenopausal women | Honigberg, Zekavat, Niroula, Griffin, Bick, Pirruccello, Whitsel, Farland, Kooperberg, Manson, Reiner, Natarajan | Gen | Circulation. 2020 Nov 9. doi: 10.1161/CIRCULATIONAH A.120.051775. Online ahead of print. | AS564 |
| 4173 | Subgingival microbiome is associated with alveolar bone loss measured 5-years later in postmenopausal women | LaMonte, Andrews, Hovey, Li, McSkimming, Banack, Sun, Wactawski-Wende | Gen | J Periodontol. 2020 Nov 3. doi: 10.1002/JPER.20-0445. Online ahead of print | AS382 |
| 4216 | Reticular pseudodrusen characteristics and associations in the carotenoids in age-related eye disease study 2 (CAREDS2) | Cleland, Domalpally, Liu, Tinker, Wallace, Mares, Blodi, Gehrs | Gen | Ophthalmol Retina. 2020 Dec 30:S2468- 6530(20)30506-6. doi: 10.1016/j.oret.2020.12.019. Online ahead of print. | AS471 |
| 4227 | Association of premature menopause with risk of abdominal aortic aneurysm in the Women's Health Initiative | Chou, Pettinger, Haring, Allison, Mell, Hlatky, Wactawski-Wende, Wild, Shadyab, Wallace, Snetselaar, Madsen, Eagleton, Conrad, Liu | | Ann Surg. 2020 Nov 4. doi: 10.1097/SLA.000000000000000000000000000000000000 | |

Table 9.1
WHI COVID-19 Survey Response Rates by Collection Mechanism

| | Total Participants Contacted | Forms Received | Percent Received |
|--------------------------------|---------------------------------|-------------------|---------------------|
| Form 190 (WHI COVID-19 Survey) | | | |
| Paper ¹ | 26888 | 19757 | 73.5% |
| Paper – REDCaP non-responders | 20424 | 16877 | 82.6% |
| Phone | 2899 | 567 | 19.6% |
| REDCaP | 34398 | 13072 | 38.0% |
| Total | 64185 | 50273 | 78.3% |

¹ The paper mailing included participants who did not respond to the REDCaP email or who did not have a valid email address.

Table 9.2

Responses to First WHI COVID-19 Survey Overall and by Age at Survey Completion

Data as of: November 1, 2020

Age at WHI COVID-19 Survey Overall 70-79 80-84 85-89 >90 (N=49,695)(N=13.317)(N=8,135)(N=16.083)(N=12.160)Ν % N % N % N % % Current level of well-being Excellent 4915 10.0 1804 1757 11.0 866 7.2 488 6.1 13.6 19045 40.2 36.1 31.9 Very Good 38.7 5766 43.5 6406 4335 2538 Good 18151 36.9 4279 32.3 5796 36.4 4814 40.1 3262 41.0 Fair 5967 12.1 1253 9.5 1716 10.8 1651 13.8 1347 16.9 Poor 901 1.8 138 1.0 232 1.5 271 2.3 260 3.3 Very Poor 35 171 0.3 17 0.1 0.2 55 0.5 64 0.8 Living arrangement changed since March 2020 due to pandemic 3351 6.9 684 904 912 7.7 851 10.8 5.2 5.7 If yes, what changed Moved in with other family or friends 90 101 356 13.1 74 12.3 12.0 91 12.9 15.1 Family or friends moved in 495 162 113 79 18.2 26.9 141 18.9 16.1 11.8 Household members moved away 148 43 38 27 4.0 5.4 7.1 40 5.3 5.4 2.5 Moved out of shared housing 62 2.3 17 2.8 13 1.7 15 2.1 17 Care provider now comes to help 190 12 2.0 12.9 7.0 46 6.1 46 6.5 86 Care provider no longer comes to help 8 92 3.4 1.3 21 2.8 19 2.7 44 6.6 Moved into care facility 233 8.6 12 2.0 47 6.3 62 8.8 112 16.8 Moved out of care facility 61 2.2 13 2.2 16 2.1 8 1.1 24 3.6 Other changes to living arrangement 1404 51.6 306 50.7 398 53.2 383 54.5 317 47.5 Number of people living in same household with you (including self) 21065 43.7 4797 36.6 6686 42.6 5753 49.1 3829 49.9 2 18858 39.1 6662 50.8 6756 43.1 3764 32.1 1676 21.8 3 2806 732 824 700 550 7.2 5.8 5.6 5.3 6.0 4 1.9 238 293 241 1.8 911 1.8 1.9 2.1 139 1207 278 5 or more 2.5 283 2.2 317 2.0 2.4 329 4.3 Not applicable 3340 6.9 401 3.1 814 5.2 977 8.3 1148 15.0 Ever exposed to another person diagnosed or suspected of having COVID-19 No, not that I know of 47137 96.2 12608 95.6 15298 96.3 11584 96.8 7647 96.3 Yes, someone outside of my home 1495 3.1 482 3.7 486 3.1 305 2.5 222 2.8 Yes, someone living with me 346 0.7 94 0.7 97 0.6 83 0.7 72 0.9 Tested for COVID-19 10766 12983 81.7 6044 76.2 No 39453 80.5 81.5 9660 80.8 2223 Yes 9241 18.9 2401 18.2 2841 17.9 18.6 1776 22.4 287 69 69 0.6 36 0.3 0.4 0.6 113 1.4 Unsure

Table 9.2 (continued)

Responses to First WHI COVID-19 Survey Overall and by Age at Survey Completion

Data as of: November 1, 2020

| | | | Age at WHI COVID-19 Survey | | | | | | | |
|--|---------|--------|----------------------------|------|------------|------|------------|------|-----------|------|
| | Overall | | 70-79 | | 80-84 | | 85-89 | | ≥90 | |
| | (N=49 | 9,695) | (N=13,317) | | (N=16,083) | | (N=12,160) | | (N=8,135) | |
| | N | % | N | % | N | % | N | % | N | % |
| If tested, positive result | | | | | | | | | | |
| No | 8368 | 94.0 | 2180 | 93.2 | 2585 | 94.7 | 2017 | 94.3 | 1586 | 93.6 |
| Yes | 311 | 3.5 | 81 | 3.5 | 84 | 3.1 | 70 | 3.3 | 76 | 4.5 |
| Unsure | 223 | 2.5 | 78 | 3.3 | 62 | 2.3 | 51 | 2.4 | 32 | 1.9 |
| Ever hospitalized for COVID-19 | | | | | | | | | | |
| No | 214 | 71.6 | 64 | 80.0 | 50 | 63.3 | 50 | 73.5 | 50 | 69.4 |
| Yes | 81 | 27.1 | 13 | 16.3 | 29 | 36.7 | 17 | 25.0 | 22 | 30.6 |
| Unsure | 4 | 1.3 | 3 | 3.8 | 0 | 0.0 | 1 | 1.5 | 0 | 0.0 |
| If hospitalized, number of nights | | | | | | | | | | |
| 1 night | 1 | 1.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 4.8 |
| 2-3 nights | 10 | 12.5 | 0 | 0.0 | 4 | 13.8 | 2 | 11.8 | 4 | 19.0 |
| 4-6 nights | 29 | 36.3 | 9 | 69.1 | 8 | 27.6 | 5 | 29.4 | 7 | 33.3 |
| 7-13 nights | 19 | 23.8 | 3 | 23.1 | 6 | 20.7 | 5 | 29.4 | 5 | 23.8 |
| 14 or more nights | 20 | 25.0 | 1 | 7.7 | 11 | 37.9 | 4 | 23.5 | 4 | 19.0 |
| Unsure | 1 | 1.3 | 0 | 0.0 | 0 | 0.0 | 1 | 5.9 | 0 | 0.0 |
| If hospitalized, received treatment in ICU | 18 | 23.1 | 2 | 15.4 | 10 | 34.5 | 3 | 20.0 | 3 | 14.3 |
| Had health care appointments scheduled from | | | | | | | | | | |
| March 2020 till now | | | | | | | | | | |
| No | 9521 | 20.1 | 2479 | 19.1 | 2958 | 19.1 | 2301 | 20.0 | 1783 | 23.9 |
| Yes | 37683 | 79.4 | 10476 | 80.7 | 12466 | 80.5 | 9133 | 79.3 | 5608 | 75.1 |
| Unsure | 252 | 0.5 | 34 | 0.3 | 55 | 0.4 | 85 | 0.7 | 78 | 1.0 |
| Health care appointment cancelled | 10132 | 27.8 | 2928 | 28.6 | 3342 | 27.7 | 2342 | 26.7 | 1520 | 28.4 |
| Health care appointment rescheduled | 13735 | 37.7 | 4015 | 39.2 | 4695 | 38.9 | 3275 | 37.4 | 1750 | 32.6 |
| Health care appointment converted to | | | | | | | | | | |
| telephone or online | 16543 | 45.4 | 4849 | 47.4 | 5488 | 45.5 | 3895 | 44.4 | 2311 | 43.1 |
| No health care appointments changed | 9355 | 25.7 | 2365 | 23.1 | 3051 | 25.3 | 2381 | 27.2 | 1558 | 29.1 |
| Decided not to go to doctor or hospital to | | | | | | | | | | |
| avoid COVID-19 exposure | 11723 | 24.5 | 3427 | 26.2 | 3732 | 23.9 | 2687 | 23.1 | 1877 | 24.7 |
| How much difficulty getting routine care since | | | | | | | | | | |
| March 2020 | | | | | | | | | | |
| None | 36377 | 75.5 | 9798 | 74.8 | 11853 | 75.7 | 8906 | 75.9 | 5820 | 75.5 |
| Some | 10549 | 21.9 | 2939 | 22.4 | 3430 | 21.9 | 2550 | 21.7 | 1630 | 21.1 |
| Much | 771 | 1.6 | 220 | 1.7 | 228 | 1.5 | 179 | 1.5 | 144 | 1.9 |
| Unable or very difficult | 496 | 1.0 | 136 | 1.0 | 146 | 0.9 | 98 | 0.8 | 116 | 1.5 |

Table 9.2 (continued)

Responses to First WHI COVID-19 Survey Overall and by Age at Survey Completion

Data as of: November 1, 2020

| | Over (N=49 | | | 70 | 00 | 0.4 | 0- | | _ | |
|---|------------|-------|-------|--------|---------------------|------|---------------------|------|------------------|------|
| - | , | ,695) | 70-79 | | 80-84 (N=16,083) | | 85-89 (N=12,160) | | ≥90 (N=8,135) | |
| | N | , , , | | 3,317) | | | | | | |
| | | % | N | % | N | % | N | % | N | % |
| How do you get prescriptions | | | | | | | | | | |
| | 19090 | 50.0 | 6201 | 58.7 | 6855 | 54.8 | 4231 | 46.1 | 1803 | 30.4 |
| Medications delivered | 13550 | 35.5 | 3583 | 33.9 | 4302 | 34.4 | 3362 | 36.6 | 2303 | 38.8 |
| Rely on others to get medications | 3159 | 8.3 | 342 | 3.2 | 695 | 5.6 | 976 | 10.6 | 1146 | 19.3 |
| Facility provides medications | 1051 | 2.8 | 43 | 0.4 | 172 | 1.4 | 298 | 3.2 | 538 | 9.1 |
| Other ways of getting medications | 1328 | 3.5 | 396 | 3.7 | 478 | 3.8 | 315 | 3.4 | 139 | 2.3 |
| Way of getting prescription medications | | | | | | | | | | |
| changed since March 2020 | 3981 | 9.7 | 974 | 8.8 | 1265 | 9.5 | 1040 | 10.5 | 702 | 10.9 |
| Difficulties taking medications since the | | | | | | | | | | |
| pandemic started | | | | | | | | | | |
| Delays getting prescriptions filled | 1844 | 37.6 | 536 | 39.6 | 567 | 36.8 | 438 | 36.6 | 303 | 37.3 |
| Delaying or not taking medications | 374 | 7.6 | 103 | 7.6 | 92 | 6.0 | 101 | 8.4 | 78 | 9.6 |
| No longer have someone to help me take | | | | | | | | | | |
| medications | 328 | 6.7 | 38 | 2.8 | 80 | 5.2 | 99 | 8.3 | 111 | 13.7 |
| Having difficulty paying for medications | 778 | 15.9 | 191 | 14.1 | 245 | 15.9 | 194 | 16.2 | 148 | 18.2 |
| Having other difficulties with taking | | | | | | | | | | |
| medications | 1897 | 38.7 | 572 | 42.2 | 633 | 41.1 | 444 | 37.1 | 248 | 30.5 |
| How concerned about the COVID-19 pandemic | | | | | | i | | | | |
| Not at all concerned | 3245 | 6.8 | 686 | 5.2 | 942 | 6.0 | 809 | 6.9 | 808 | 10.6 |
| | 20247 | 42.2 | 5281 | 40.4 | 6594 | 42.2 | 5048 | 43.2 | 3324 | 43.6 |
| | 24533 | 51.1 | 7115 | 54.4 | 8092 | 51.8 | 5826 | 49.9 | 3500 | 45.9 |
| Pandemic causing concerns about | | | | | | | | | | |
| | 30849 | 62.1 | 9163 | 68.8 | 10372 | 64.5 | 7174 | 59.0 | 4140 | 50.9 |
| | 33448 | 67.3 | 9611 | 72.2 | 11074 | 68.9 | 7889 | 64.9 | 4874 | 59.9 |
| Getting healthcare | 5714 | 11.5 | 1765 | 13.3 | 1804 | 11.2 | 1285 | 10.6 | 860 | 10.6 |
| Getting adequate food | 1375 | 2.8 | 425 | 3.2 | 410 | 2.5 | 332 | 2.7 | 208 | 2.6 |
| | 11587 | 23.3 | 3292 | 24.7 | 3879 | 24.1 | 2787 | 22.9 | 1629 | 20.0 |
| Getting enough sleep | 3813 | 7.7 | 1157 | 8.7 | 1261 | 7.8 | 895 | 7.4 | 500 | 6.1 |
| Adequate housing | 299 | 0.6 | 69 | 0.5 | 88 | 0.5 | 90 | 0.7 | 52 | 0.6 |
| Having enough money | 2380 | 4.8 | 715 | 5.4 | 718 | 4.5 | 580 | 4.8 | 367 | 4.5 |
| Personal safety | 8189 | 16.5 | 2489 | 18.7 | 2716 | 16.9 | 1907 | 15.7 | 1077 | 13.2 |
| | 29226 | 58.8 | 8090 | 60.7 | 9555 | 59.4 | 7106 | 58.4 | 4475 | 55.0 |
| Financial security | 3795 | 7.6 | 1206 | 9.1 | 1177 | 7.3 | 852 | 7.0 | 560 | 6.9 |
| Financial security of family | 5168 | 10.4 | 1605 | 12.1 | 1702 | 10.6 | 1198 | 9.9 | 663 | 8.1 |
| | 30533 | 61.4 | 8756 | 65.8 | 10102 | 62.8 | 7232 | 59.5 | 4443 | 54.6 |
| | 34561 | 69.5 | 9743 | 73.2 | 11372 | 70.7 | 8335 | 68.5 | 5111 | 62.8 |

Table 9.2 (continued)

Responses to First WHI COVID-19 Survey Overall and by Age at Survey Completion Data as of: November 1, 2020

| | | | Age at WHI COVID-19 Survey | | | | | | | | |
|---|---------|--------|----------------------------|------------|-------|------------|-------|------------|------|-----------|--|
| | Overall | | 70-79 | | 80-84 | | 85-89 | | ≥90 | | |
| | (N=49 | 9,695) | (N=13 | (N=13,317) | | (N=16,083) | | (N=12,160) | | (N=8,135) | |
| | N | % | N | % | N | % | N | % | N | % | |
| Since March 2020, steps taken to reduce | | | | | | | | | | | |
| COVID-19 risk | | | | | | | | | | | |
| Washing hands frequently | 45019 | 90.6 | 12582 | 94.5 | 14884 | 92.5 | 10871 | 89.4 | 6682 | 82.1 | |
| Not touching face | 32157 | 64.7 | 9636 | 72.4 | 10821 | 67.3 | 7471 | 61.4 | 4229 | 52.0 | |
| Disinfecting surfaces frequently | 25227 | 50.8 | 7658 | 57.5 | 8535 | 53.1 | 5828 | 47.9 | 3206 | 39.4 | |
| Physical distancing | 44344 | 89.2 | 12537 | 94.1 | 14690 | 91.3 | 10607 | 87.2 | 6510 | 80.0 | |
| Wearing mask in public | 46309 | 93.2 | 12810 | 96.2 | 15261 | 94.9 | 11223 | 92.3 | 7015 | 86.2 | |
| Wearing gloves in public | 9517 | 19.2 | 3045 | 22.9 | 3248 | 20.2 | 2154 | 17.7 | 1070 | 13.2 | |
| Avoiding in-person activities | 36786 | 74.0 | 10358 | 77.8 | 12132 | 75.4 | 8804 | 72.4 | 5492 | 67.5 | |
| Avoiding or limiting in-person shopping | 34828 | 70.1 | 9599 | 72.1 | 11416 | 71.0 | 8496 | 69.9 | 5317 | 65.4 | |
| Avoiding shaking hands | 40159 | 80.8 | 11580 | 87.0 | 13405 | 83.3 | 9532 | 78.4 | 5642 | 69.4 | |
| Staying home | 39210 | 78.9 | 10472 | 78.6 | 12528 | 77.9 | 9642 | 79.3 | 6568 | 80.7 | |
| How often communicate with others outside | | | | | | | | | | | |
| your home | | | | | | | | | | | |
| Every day | 22819 | 47.8 | 6559 | 50.4 | 7434 | 47.8 | 5415 | 46.8 | 3411 | 44.9 | |
| Several times per week | 16043 | 33.6 | 4426 | 34.0 | 5436 | 35.0 | 3807 | 32.9 | 2374 | 31.3 | |
| 1-2 times per week | 5326 | 11.2 | 1333 | 10.2 | 1668 | 10.7 | 1401 | 12.1 | 924 | 12.2 | |
| Once per week | 1945 | 4.1 | 422 | 3.2 | 581 | 3.7 | 518 | 4.5 | 424 | 5.6 | |
| Rarely or never | 1607 | 3.4 | 283 | 2.2 | 426 | 2.7 | 438 | 3.8 | 460 | 6.1 | |
| Compared to months before outbreak, | | | | | | | | | | | |
| communication is | | | | | | | | | | | |
| More often than before | 7483 | 15.7 | 2130 | 16.4 | 2535 | 16.3 | 1777 | 15.3 | 1041 | 13.7 | |
| About the same as before | 27461 | 57.5 | 7212 | 55.4 | 8805 | 56.6 | 6815 | 58.8 | 4629 | 61.1 | |
| Less often than before | 12791 | 26.8 | 3680 | 28.3 | 4211 | 27.1 | 2992 | 25.8 | 1908 | 25.2 | |
| How staying in touch with others not living | | | | | | | | | | | |
| with you | | | | | | | | | | | |
| Speaking in person | 18911 | 39.0 | 5395 | 41.0 | 6301 | 39.9 | 4459 | 37.8 | 2756 | 35.4 | |
| By telephone | 46896 | 96.7 | 12667 | 96.3 | 15328 | 97.1 | 11467 | 97.2 | 7434 | 95.5 | |
| By video calls | 16013 | 33.0 | 5803 | 44.1 | 5416 | 34.3 | 3115 | 26.4 | 1679 | 21.6 | |
| By email | 29706 | 61.2 | 9689 | 73.6 | 10547 | 66.8 | 6384 | 54.1 | 3086 | 39.6 | |
| By social media | 15190 | 31.3 | 5555 | 42.2 | 5268 | 33.4 | 3054 | 25.9 | 1313 | 16.9 | |
| By postal mail | 15700 | 32.4 | 3739 | 28.4 | 5038 | 31.9 | 4095 | 34.7 | 2828 | 36.3 | |
| Other method | 3645 | 7.5 | 1230 | 9.3 | 1245 | 7.9 | 758 | 6.4 | 412 | 5.3 | |

Table 9.2 (continued)

Responses to First WHI COVID-19 Survey Overall and by Age at Survey Completion Data as of: November 1, 2020

| | | | Age at WHI COVID-19 Survey | | | | | | | | |
|--|--------------------|------|----------------------------|------|---------------------|------|---------------------|------|------------------|------|--|
| | Overall (N=49,695) | | 70-79 (N=13,317) | | 80-84 (N=16,083) | | 85-89 (N=12,160) | | ≥90 (N=8,135) | | |
| | N | % | N | % | N | % | N | % | N | % | |
| Over the past month, level of physical | | | | | | | | | | | |
| activity since COVID-19 pandemic began | | | | | | | | | | | |
| Much less | 12568 | 25.7 | 3232 | 24.5 | 4079 | 25.7 | 3160 | 26.5 | 2097 | 26.5 | |
| Somewhat less | 14051 | 28.7 | 3783 | 28.7 | 4705 | 29.6 | 3425 | 28.7 | 2138 | 27.0 | |
| About the same | 18233 | 37.3 | 4541 | 34.4 | 5748 | 36.2 | 4591 | 38.5 | 3353 | 42.3 | |
| Somewhat more | 3226 | 6.6 | 1290 | 9.8 | 1076 | 6.8 | 588 | 4.9 | 272 | 3.4 | |
| Much more | 852 | 1.7 | 352 | 2.7 | 274 | 1.7 | 165 | 1.4 | 61 | 0.8 | |